Important Phone Numbers:
Fire or Ambulance: 911
Campus Facilities: 882-8211
OT Office: 573-882-3988
Lewis Hall Bldg. Coord.: 882-8034 / 882-3873
Clark Hall Bldg. Coord.: 882-2377 / 884-2113

Physical Address for Office / Class / Clinic Locations:
Clark Hall / Lewis Hall: 701 S. Fifth Street, 65201
# Table of Contents

The Clark Hall and Lewis Hall **Emergency Action Plans** contain many of the safety plans for our physical space. They are located in our Policies folder. Please refer to these manuals for information about:

- Emergency Contacts
- Response Procedures for Emergencies
- Emergency Prevention tips
- Persons who need assistance during an emergency
- Evacuation routes and shelter locations

**General Procedures for Safety**

- Severe Weather
- General Evacuation
- Fire Evacuation
- Emergency Notifications

**General Laboratory and/or Practicum Safety Policies and Procedures**

- General Information
- Procedure for Student Laboratory and/or Practicum Practice Incidents
- Dress Code
- General Medical Emergencies
- First Aid Instructions

**Universal Precautions and Infection Control**

- Universal Precautions
- General Safety Precautions
- OT Safety Policies
- Laboratory and/or Practicum Policies Education
- Body Substance Precautions
- Mandatory Health Requirements

**Specific Modalities and Supplies Safety Procedures**

- Sterilization and Maintenance
- Waste Disposal

**ADA Policy**

**Appendix**

- TigerOT Incident Form
- Inspection Checklist
- Material Safety Data
General Procedures for Safety

Severe Weather
Tornado warnings necessitate taking shelter quickly. Close all doors to offices and rooms. Safe places within the buildings are interior rooms or bathrooms with no windows. Anyone can use these interior rooms as an expedient shelter on any floor if time is critical. The safest place inside of the buildings are the basement and the stairwells. All occupants should attempt to get to the basement and/or lowest floor possible using the interior stairwells. All floor occupants should go as far down into the building as feasibly possible. Elevators should be reserved for those who have a mobility issue and cannot use the stairs. Someone should be assigned to accompany and assist those with mobility issues.

General Evacuation
There are several possible hazards that might require the complete or partial evacuation of the building. Close all doors to offices and rooms. All occupants should attempt to get to the basement and/or lowest floor possible using the interior stairwells. All floor occupants should go as far down into the building as feasibly possible and then exit to a designated rallying point. Elevators should be reserved for those who have a mobility issue and cannot use the stairs. Someone should be assigned to accompany and assist those with mobility issues. Once at the rallying point, a census should be taken by the floor or zone monitor and be ready to report any concerns to arriving first responders.

Fire Evacuation
A fire within the building might require the complete or partial evacuation of the buildings. Close all doors to offices and rooms. All occupants should attempt to get to the basement and/or lowest floor possible using the interior stairwells. All floor occupants should go as far down into the building as feasibly possible and then exit to a designated rallying point. If the stairwells are filled with smoke, exit the nearest floor and notify 911 of the number and location of those that are trapped by the fire. Elevators should not be used by building occupants as the fire service will need to take control of them. Those with mobility issues should shelter in place if they cannot use the stairs. Someone should be assigned to accompany and assist those with mobility issues. Report to first responders immediately if mobility impaired occupants are sheltering in place. Evacuate away from the building and away from possible entrances by emergency equipment that will be arriving. Once at the rallying point a census should be taken by the floor or zone monitor and be ready to report any concerns to arriving first responders.

Emergency Notifications
All faculty and staff are encouraged to register to receive notifications via text message and/or phone. They may opt in or out of the various communication tools so that they receive information in the preferred way. Faculty and staff can register for notifications through their myHR account at https://myhr.umsystem.edu.

General Laboratory and/or Practicum Safety Policies and Procedures

General Information
The Program recognizes the importance of practice/study in laboratory skills and practicum experiences. The Course Instructor schedules open laboratory sessions, in addition to regular labs. A Graduate Assistant or faculty member must be present during all lab sessions unless otherwise specified. No
electrical equipment/modality, except hydrocollator located in Lewis Hall, may be plugged in or turned on unless a faculty member is present.

Students must wear appropriate clothing for course laboratories and fieldwork experiences according to the student handbook (Refer to Dress Code below, and see the Student Handbook for more detail).

The clinical laboratories and classrooms are often used by as many as 100 people each day. This means that they’re frequently busier than many hospital clinics. Students should maintain treatment areas and replace equipment properly at the end of each lab session and practicum. It is the student’s responsibility to inform the faculty of any condition, injury or illness that may be influenced by the lab activities.

**Procedure for Student Laboratory and/or Practicum Practice Incidents**

At the beginning of the professional Program, students will complete an informed consent form indicating the student’s decision to participate in lab and/or practicum experiences or off site community activities (Refer to Student Handbook, which you signed indicating you agree to these standards). This will be maintained in the student’s folder. This consent form covers laboratory and/or practicum activities and use of equipment and supplies in the course of completing laboratory and/or practicum activities and/or community visits, under the supervision of faculty and/or graduate assistants.

The student will notify one of the instructors or administrative assistant in the lab or community site immediately upon noticing some unusual effect either from laboratory and/or practicum experiences or equipment/supplies that are not in working order. Students are responsible for using equipment and supplies appropriately, as supported by class materials or laboratory/practicum/community demonstration from faculty. This is to assure the health and safety of the students and any clients participating with students in structured laboratory and/or practicum experiences or community based activities.

The student will complete the Tiger OT Incident Form (Refer to Appendix) and submit it to the lab instructor so that he/she can fill it out as well. The student and the lab instructor or GA will sign the incident form. The original incident form will be kept in department files. A copy of the incident form will be placed in the student's folder. If the student sees a physician, a copy of the physician's report will be attached to the incident form. All faculty involved in teaching a course and the Department Chair will be made aware when an incident has taken place in that course.

The client will complete the Tiger OT Incident Form (Refer to Appendix) and submit it to the lab instructor so that he/she can fill it out as well. The client and the lab instructor will sign the incident form. The original incident form will be kept in department files. A copy of the incident form will be placed in an incident folder kept on a secure file (e.g., BOX). If the client sees a physician, a copy of the physician's report will be attached to the incident form. All faculty involved in teaching a course and the Department Chair will be made aware when an incident has taken place in that course.

**Dress Code**

During any client contact, including TigerOT clinics, students are expected to present a professional appearance which positively impacts their therapeutic relationships. Cleanliness, modesty, and safety are the primary grooming considerations during all client contact. Unless otherwise informed by the course instructor, these guidelines also apply when guest speakers are present in class (Refer to Student Handbook).
**General Medical Emergencies**
In case of a medical emergency, follow these basic guidelines:

- Call the University Safety Professional at EHS (882-7018).
- Give your name and that of the victim.
- Give your location, including building, floor and room.
- Describe the nature and severity of the medical problem.
  - Is the victim conscious?
  - Is the victim breathing?
  - Is the victim bleeding?
- You may be asked other questions which prepare emergency personnel prior to their arrival at your location. Do not hang up until released by the emergency operator.
- If the victim is conscious and alert, they have the right to make healthcare decisions on their own. You may encourage them but not require them to seek treatment. Do not recommend a specific healthcare provider.
- If the victim is unconscious or disoriented, it is appropriate for you to seek medical attention for them.
- Keep the victim still and comfortable until help arrives. Do not move the victim unless necessary to prevent further injury.
- Use First Aid measures only if you have been trained in them and are comfortable doing so.
- All clinical faculty and students are required to have Basic Life Saver certification.
- Persons with serious or unusual medical conditions are encouraged to notify their supervisors of the condition, its symptoms and standard emergency treatment related to the condition.

**First Aid Instructions**
First aid kits are located in every classroom and clinic and in the OT space on the 8th floor of Clark Hall. This kit should be used for minor injuries, such as cuts or burns.

- All injuries requiring first aid must be reported to the instructor.
- For more serious injuries, please follow general emergency procedures.
  - Call the University Safety Professional at EHS (882-7018).

**Universal Precautions and Infection Control**

**Universal Precautions** (Adapted from OSHA Standards Manual)
Universal Precautions: the practice of avoiding contact with bodily fluids, by means of the wearing of non-porous articles such as gloves, goggles, and face shields.

The Centers for Disease Control (CDC) defines **Standard Precautions** as: “A set of precautions designed to prevent transmission of HIV, Hepatitis B virus (HPV), and other bloodborne pathogens when providing first aid or health care. Under these precautions blood and all other bodily fluids are considered potentially infectious.”
General Safety Precautions

- Every person should be treated as though they have an infectious disease
- Proper Hand washing techniques in laboratory/practicum/clinical and community based settings, hand washing should be done every time a different person is in contact with your hands and always after using a restroom. Use the warmest water possible, soap hands, scrub hands thoroughly, and rinse. Alternatively, use the hand sanitizer that is available within the clinic settings.
- Bodily fluids (e.g., blood spills, urine, emesis) should be cleaned up by the designated staff member (Campus Facilities personnel)
- Inspect the intactness of skin on all exposed body parts, especially the hands.
- Cover all open cuts or broken skin and contact the instructor.
- Clean up blood spills with one part bleach to 10 parts water, pouring the solution around the periphery of the spill (Facilities will handle)
- Disinfect mops, buckets, and other equipment with fresh bleach solution.
- Do not touch eyes.
- Appropriate cleaning & disinfecting of treatment spaces and equipment following treatment session and laboratory and or practicum experiences.
- Pillow cases and sheets in clinical spaces placed in designated dirty laundry.
- Only one client use for all linen.
- Each treatment area and treatment media should be cleaned before and after each client.
- Wear gloves and wipe area after changing someone’s diaper.

OT Safety Policies
Unsafe or unhealthy behavior will not be tolerated because it endangers others. Please read over the list of rules below and follow them whenever you are in the lab.

1. Wipe up spills immediately, before further accidents occur.
2. Never eat or drink anything in lab/practicum, or put anything in your mouth.
3. Always take precautions against fire. NO SMOKING.
4. No running or sudden movement in the lab.
5. Follow the dress code in the student manual.
6. Keep your work area neat and orderly. Keep coats, knapsacks, and other unnecessary items under the desks or in cubbies.
7. Sandals or open shoes should not be worn in the lab/practicum.
8. Avoid touching hot objects.
9. IMMEDIATELY report all spills, broken glass, injuries, or other mishaps to the lab instructor or assistant.
10. In the clinic and lab space there is a special container for the disposal of broken Glass, scalpel blades, and other sharp objects. ONLY these items are to be disposed of in this box.
11. KNOW WHAT TO DO in case of an emergency:
    a. Know where the fire extinguisher is kept.
    b. Know where the first aid kit is kept.
    c. Know where to call for help- dial 911.
    d. Know how to use the eyewash station

Be sure to refer to the Lewis and Clark Halls safety manual for specific procedures.
Laboratory and/or Practicum Policies Education
Laboratory and/or practicum safety policies and procedures will be thoroughly reviewed in one lab in the fall during the first week of classes and reinforced in every lab thereafter.

Body Substance Precautions
1. Protect yourself and your patient by wearing gloves when you come into contact with non-intact skin or moist body substances.
   a. Do not wear the same pair of gloves for the care of more than one patient.
   b. Do not wash gloves for the purpose of reuse.
2. Wear a mask and goggles if likely to be splashed with body substances.
3. Perform hand hygiene often and well before and after touching a patient or anything in the patient’s room. Protect clothing with an appropriate gown when it is likely that clothing will be soiled with body substances.
4. For patients with uncontrolled secretions, excretions or wound drainage where extensive soiling of the environment is likely for example a patient with C. difficile colitis, you would order Enhanced Body Substance Precautions and the patient would be placed in a private room.

Mandatory Health Requirements
1. All clinical employees must present documentation of the following immunizations or titers:
   a. Measles, Mumps, and Rubella (MMR)
   b. Hepatitis B
   c. Varicella (i.e. Chicken Pox)
   d. Tetanus, Diphtheria, and Pertussis (Tdap) within past 10 years
2. Negative results on a 2-step tuberculosis tests at least 2 weeks apart that is no less than 12 months old. Must be tested for tuberculosis once every 12 months.
3. All clinical employees must submit to an 8panel urine drug screen.

Specific Modalities & Supplies Safety Procedures
Sterilization and Maintenance
1. Always follow label directions on cleaning products and disinfectants. Wash surfaces with a general household cleaner to remove germs (e.g., Clorox Wipes).
2. If a surface is not visibly dirty, you can clean it with an EPA-registered product that both cleans (removes germs) and disinfects (kills germs) instead. Be sure to read the label directions carefully, as there may be a separate procedure for using the product as a cleaner or as a disinfectant. Disinfection usually requires the product to remain on the surface for a certain period of time.
3. Use disinfecting wipes on electronic items that are touched often, such as phones and computers. Pay close attention to the directions for using disinfecting wipes. It may be necessary to use more than one wipe to keep the surface wet for the stated length of contact time. Make sure that the electronics can withstand the use of liquids for cleaning and disinfecting.
All equipment utilized by faculty/staff/students shall be inspected and cleaned in accordance with manufacturer’s guidelines, prior to and following use.

- Guidelines and instructions for maintenance and cleaning are kept on file in the Occupational Therapy Department.
- All electrical equipment utilized for the practice and instruction are located in the laboratories will be inspected for safety and certified on a yearly basis by a Certified Electrical Technician or appropriately trained technician.
- Each item shall have a sticker with date of inspection by a technician.
- All equipment is stored in the appropriate cabinet or closet at the end of each class session.
- All cabinet and closet doors must be closed and locked at the end of each class session.
- Any equipment that is damaged should be tagged as such and reported to one of the faculty.
- At the end of each session, faculty and students are responsible for ensuring that equipment is cleaned, disinfected, and stored in the appropriate location(s).
- Paper towels, gloves, and disinfectant, are provided in the practice area.
- All food will be dated and initialed.
- The Mat table attached to the wall when not in use should be folded up with chain lock in place for safety.
- The other Mat table will only be used for demonstration/practice; they are not to be used as “chairs”. Mat table weight limits are 500lbs, unless labeled otherwise.
- All surfaces and equipment should be disinfected using available supplies.

**Specific Guidelines:**

When the modalities are in use the following procedures are followed:

**Paraffin and Hydrocollator temperature** is monitored before each use:

- **Paraffin** - 125-130 degrees
- **Moist Heat** (hydrocollator) - 160-175 degrees
- **Cold Pack** - 23 degrees

**Cleaning:**

- Paraffin - according to manufacturer's instructions.
- Hydrocollator - monthly.
- Dispose of hotpacks/coldpacks with tears or leaks.
- Sign posted above each one of these units stating whether it should be kept on or off.

**Bolsters/Therapy Balls**

Bolsters, platform and disc, and therapy balls are used to demonstrate pediatric and adult based treatments.

**Hazards Associated with Bolsters/Therapy Balls**

1. Back, neck and shoulder injury due to poor body mechanics or awkward movements.
2. Potential dizziness, nausea or vomiting due to movement.
3. Injury to client falling off or losing balance.
Craft Supplies

Water-Based Paints
Water-based paints include watercolor, acrylic and tempera. Water is used for thinning and cleanup.

Hazards Associated with Water-Based Paints
Acrylic paints contain a small amount of ammonia. Some sensitive people may experience eye, nose and throat irritation from the ammonia. Acrylics contain a very small amount of formaldehyde as a preservative. People already sensitized to formaldehyde may experience allergic reactions from the trace amount of formaldehyde found in acrylics.

Safety Precautions When Working with Water-Based Paints
The following safety precautions shall be followed when working with water-based paints:

1. Create ventilation (e.g., open door/ window) while using acrylic paints
2. Never use lips to point the end of the paintbrush
3. Eating, smoking and drinking are prohibited in the lab while art materials are being used

Dry Drawing Media
This includes dust-creating media such as charcoal and pastels and media such as crayons and oil pastels which do not create dust.

Hazards Associated with Dry Drawing Media
Charcoal is considered a nuisance dust. Inhalation of large amounts of charcoal dust can create chronic lung problems through a mechanical irritation and clogging effect. A major source of charcoal inhalation is from the habit of blowing excess charcoal dust off the drawing. Colored chalks are also considered nuisance dusts. Some chalks are dustier than others. Individuals who have asthma sometimes have problems with dusty chalks. Pastel sticks and pencils consist of pigments bound into solid form by a resin. Inhalation of pastel dusts is the major hazard. Blowing excess pastel dust off the drawing is one major source of inhalation of pastel pigments. Some pastels are dustier than others. Pastels may contain toxic pigments such as chrome yellow (lead chromate), which can cause lung cancer, and cadmium pigments which can cause kidney and lung damage and are suspect human carcinogens.

Safety Precautions When Working with Dry Drawing Media
The following safety precautions shall be followed when working with dry drawing media:

1. Use the least dusty types of pastels, chalks, and pencils. Switch to oil pastels or similar non-dusty media when possible.
2. Do not blow off excess pastel or charcoal dust with your mouth. Instead, tap off the built up dust so it falls to the floor.
3. Wetmop and wetwipe all surfaces clean of dusts.
4. A mask can be worn for protection from inhalation of dusts.

Glue

Hazards Associated with Gluing Wood
Water-based glues, white glue (polyvinyl acetate) and other water-based adhesives are slightly toxic through skin contact and only slightly toxic through inhalation or ingestion.

Safety Precautions When Gluing Wood

1. Use water-based glues for craft projects.
2. Provide ventilation (open doors/ windows) when large amounts of the glue is used.

**Waste Disposal**

Place no-touch waste baskets where they are easy to use. Throw disposable items used to clean surfaces and items in the trash immediately after use. Avoid touching used tissues and other waste when emptying waste baskets. Wash your hands with soap and water after emptying waste baskets and touching used tissues and similar waste.

**ADA Policy**

**AMERICANS WITH DISABILITIES ACT**

Students with Disabilities: If you anticipate barriers related to the format or requirements of your courses, if you have emergency medical information to share with the department, or if you need to make arrangements in case the building must be evacuated, please let us know as soon as possible.

If disability related accommodations are necessary (for example, a note taker, extended time on exams, captioning), please register with the Disability Center (http://disabilitycenter.missouri.edu), S5 Memorial Union, 573- 882-4696, and then notify the department of your eligibility for reasonable accommodations. For other MU resources for persons with disabilities, click on "Disability Resources" on the MU homepage.
TigerOT Incident Form

REPORTED BY: ___________________________ DATE OF REPORT: ___________________________
TITLE / ROLE: ___________________________ INCIDENT NO.: ___________________________

INCIDENT INFORMATION:

INCIDENT TYPE: ___________________________ DATE OF INCIDENT: ______________
LOCATION: _________________________________________________________________
CITY: ___________________ STATE: _________ ZIP CODE: ______________
SPECIFIC AREA OF LOCATION (if applicable): __________________________

INCIDENT DESCRIPTION:

NAME / ROLE / CONTACT OF PARTIES INVOLVED:

1. _______________________________________________________________
2. _______________________________________________________________
3. _______________________________________________________________

NAME / ROLE / CONTACT OF WITNESSES:

1. _______________________________________________________________
2. _______________________________________________________________
3. _______________________________________________________________

POLICE REPORT FILED? _______________________ PRECINCT: _______________________
REPORTING OFFICER: ______________________ PHONE: ______________________

FOLLOW-UP ACTION:

SUPERVISOR NAME: ____________________ SUPERVISOR SIGNATURE: ____________________ DATE: ______________
Monthly:
Expiration date of food/drinks

Quarterly:
Expiration date of gloves
Expiration date of hand sanitizers

Annually:
Hydrocollator
Heat Guns
Hospital Bed
AED
Eyewash Stations
Refrigerator
Microwave
Stove/oven
Washing Machine
Dryer
Safety Data Sheet

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Document Group: 21-3355-1
Issue Date: 07/23/14
Version Number: 2.00
Supercedes Date: 11/12/12

SECTION 1: Identification

1.1. Product identifier
Alcohol Wipes

Product Identification Numbers

1.2. Recommended use and restrictions on use

Recommended use
For use with Fiber Optic Closures.

1.3. Supplier's details
MANUFACTURER: 3M
DIVISION: Communication Markets Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Flammable Liquid: Category 2.
Serious Eye Damage/Irritation: Category 2A.
Specific Target Organ Toxicity (central nervous system): Category 3.

2.2. Label elements
Signal word
Danger

Symbols
Flame | Exclamation mark |

Pictograms
Hazard Statements
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.

Precautionary Statements

Prevention:
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Keep container tightly closed.
Use explosion-proof electrical/ventilating/lighting equipment.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye/face protection.
Wash thoroughly after handling.

Response:
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell.
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

Storage:
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
Store locked up.

Disposal:
Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

2.3. Hazards not otherwise classified
May cause thermal burns.

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>67-63-0</td>
<td>99.6</td>
</tr>
</tbody>
</table>

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.
SECTION 4: First aid measures

4.1. Description of first aid measures

**Inhalation:**
Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**
Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.

**Eye Contact:**
Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.

**If Swallowed:**
Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed
See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

5.3. Special protective actions for fire-fighters
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible.
SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid skin contact with hot material. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (e.g. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

7.2. Conditions for safe storage including any incompatibilities

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Agency</th>
<th>Limit type</th>
<th>Additional Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>67-63-0</td>
<td>ACGIH</td>
<td>TWA:200 ppm; STEL:400 ppm</td>
<td>A4: Not class. as human carcin</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>67-63-0</td>
<td>OSHA</td>
<td>TWA:980 mg/m3(400 ppm)</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Indirect Vented Goggles

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.
Gloves made from the following material(s) are recommended: Nitrile Rubber
Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Physical Form:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Specific Physical Form:</td>
<td>Saturated Wipe</td>
</tr>
<tr>
<td>Odor, Color, Grade:</td>
<td>Alcohol Odor</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>82 ºC [Details: Based on liquid portion only.]</td>
</tr>
<tr>
<td>Flash Point</td>
<td>11.7 ºC</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits(LEL)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits(UEL)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>33 mmHg [Details: At 20 deg. C]</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>2.07 [Details: Air = 1]</td>
</tr>
<tr>
<td>Density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.79 g/ml [Ref Std: WATER=1] [Details: Based on liquid portion of wipe.]</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Negligible [Details: Miscible]</td>
</tr>
<tr>
<td>Solubility- non-water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/ water</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Average particle size</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Hazardous Air Pollutants</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Volatile Organic Compounds</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Percent volatile</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Softening point</td>
<td>No Data Available</td>
</tr>
<tr>
<td>VOC Less H2O &amp; Exempt Solvents</td>
<td>No Data Available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

10.2. Chemical stability

Stable.
10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Not determined

10.5. Incompatible materials
Not determined

10.6. Hazardous decomposition products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>None known.</td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

**Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

**Skin Contact:**
During heating:

- Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

  Contact with the skin during product use is not expected to result in significant irritation.

  Prolonged or repeated exposure may cause:

  - Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

**Eye Contact:**
During heating:

- Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

  Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

**Ingestion:**
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
May cause target organ effects after ingestion.

**Target Organ Effects:**

**Single exposure may cause:**
Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

### Acute Toxicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall product</td>
<td>Dermal</td>
<td>No data available; calculated ATE &gt; 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Inhalation-Vapor(4 hr)</td>
<td>No data available; calculated ATE &gt; 50 mg/l</td>
<td></td>
</tr>
<tr>
<td>Overall product</td>
<td>Ingestion</td>
<td>No data available; calculated ATE 2,000 - 5,000 mg/kg</td>
<td></td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Dermal</td>
<td>Rabbit</td>
<td>LD50 12,870 mg/kg</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Inhalation-Vapor (4 hours)</td>
<td>Rat</td>
<td>LC50 72.6 mg/l</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Ingestion</td>
<td>Rat</td>
<td>LD50 4,710 mg/kg</td>
</tr>
</tbody>
</table>

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Multiple animal species</td>
<td>No significant irritation</td>
</tr>
</tbody>
</table>

### Serious Eye Damage/Irritation

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Rabbit</td>
<td>Severe irritant</td>
</tr>
</tbody>
</table>

### Skin Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Guinea pig</td>
<td>Not sensitizing</td>
</tr>
</tbody>
</table>

### Respiratory Sensitization

<table>
<thead>
<tr>
<th>Name</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
</table>

### Germ Cell Mutagenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>In Vitro</td>
<td>Not mutagenic</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>In vivo</td>
<td>Not mutagenic</td>
</tr>
</tbody>
</table>

### Carcinogenicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Species</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Inhalation</td>
<td>Rat</td>
<td>Some positive data exist, but the data are not sufficient for classification</td>
</tr>
</tbody>
</table>

### Reproductive Toxicity

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Ingestion</td>
<td>Some positive developmental data exist, but the data are not sufficient for</td>
<td>Rat</td>
<td>NOAEL 400</td>
<td>during organogenesis</td>
</tr>
</tbody>
</table>

---
Target Organ(s)

Specific Target Organ Toxicity - single exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Inhalation</td>
<td>central nervous system depression</td>
<td>May cause drowsiness or dizziness</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Inhalation</td>
<td>respiratory irritation</td>
<td>Some positive data exist, but the data are not</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td></td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Inhalation</td>
<td>auditory system</td>
<td>Some positive data exist, but the data are not</td>
<td>Guinea pig</td>
<td>NOAEL 13.4 mg/l</td>
<td>24 hours</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Ingestion</td>
<td>central nervous system depression</td>
<td>May cause drowsiness or dizziness</td>
<td>Human</td>
<td>NOAEL Not available</td>
<td>poisoning &amp; abuse</td>
</tr>
</tbody>
</table>

Specific Target Organ Toxicity - repeated exposure

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Target Organ(s)</th>
<th>Value</th>
<th>Species</th>
<th>Test Result</th>
<th>Exposure Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Inhalation</td>
<td>kidney and/or bladder</td>
<td>Some positive data exist, but the data are not</td>
<td>Rat</td>
<td>NOAEL 12.3 mg/l</td>
<td>24 months</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Inhalation</td>
<td>nervous system</td>
<td>All data are negative</td>
<td>Rat</td>
<td>NOAEL 12 mg/l</td>
<td>13 weeks</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>Ingestion</td>
<td>kidney and/or bladder</td>
<td>Some positive data exist, but the data are not</td>
<td>Rat</td>
<td>NOAEL 400 mg/kg/day</td>
<td>12 weeks</td>
</tr>
</tbody>
</table>

Aspiration Hazard

<table>
<thead>
<tr>
<th>Name</th>
<th>Value</th>
</tr>
</thead>
</table>

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: Disposal considerations

13.1. Disposal methods
 Dispose of contents/container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective
regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations
Contact 3M for more information.

15.2. State Regulations
Contact 3M for more information.

15.3. Chemical Inventories
The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

15.4. International Regulations
Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification
Health: 2 Flammability: 3 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Document Group: 21-3355-1
Issue Date: 07/23/14
Version Number: 2.00
Supercedes Date: 11/12/12

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directly from 3M

3M USA SDSs are available at www.3M.com
2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements

Emergency Overview
Precautionary Statements - Prevention
Obtain special instructions before use

Precautionary Statements - Response
None

Precautionary Statements - Storage
None

Precautionary Statements - Disposal
None

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
5.69049% of the mixture consists of ingredient(s) of unknown toxicity

Other information
May cause slight eye irritation

Interactions with Other Chemicals
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>1 - 5</td>
<td>*</td>
</tr>
</tbody>
</table>

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye Contact          Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact         Wash with soap and water.

Inhalation           Remove to fresh air.

Ingestion            Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed
Most Important Symptoms and Effects
No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical
No information available.

Hazardous Combustion Products
Carbon oxides.

Physical/Chemical Reaction Properties
No data available.

Explosion Data
Sensitivity to Mechanical Impact No.
Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Avoid contact with eyes.

Environmental Precautions

Environmental Precautions
Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.
7. HANDLING AND STORAGE

Precautions for safe handling

Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Storage
Keep container tightly closed.

Incompatible Products
None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection
No special protective equipment required.

Skin and Body Protection
No special protective equipment required.

Respiratory Protection
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Viscous liquid, Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Light blue</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Pleasant</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Melting / freezing point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble in water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Softening Point</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>Particle Size Distribution</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

Specific test data for the substance or mixture is not available.

Eye Contact

Specific test data for the substance or mixture is not available.

Skin Contact

Specific test data for the substance or mixture is not available.

Ingestion

Specific test data for the substance or mixture is not available.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>= 4090 mg/kg ( Rat )</td>
<td>-</td>
<td>= 2300 mg/m³ ( Rat ) 2 h</td>
</tr>
</tbody>
</table>
Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

May cause eye irritation.

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenicity

Contains no ingredient listed as a carcinogen.

Reproductive Toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic Toxicity

No known effect based on information supplied.

Target Organ Effects

None known.

Aspiration Hazard

No information available.

Numerical measures of toxicity  Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist)

67.97 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>120h EC50: = 242 mg/L (Nitzschia)</td>
<td>96h LC50: = 300 mg/L (Lepomis macrochirus) 96h LC50: = 310 - 1220 mg/L (Pimephales promelas)</td>
<td>48h EC50: = 265 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.
13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging
Dispose of contents/containers in accordance with local regulations.

California Hazardous Waste Codes 561

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate 497-19-8</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
Proper Shipping Name
NON REGULATED
Hazard Class
N/A

TDG
Not regulated

MEX
Not regulated

ICAO
Not regulated

IATA
Proper Shipping Name
NON REGULATED
Hazard Class
N/A

IMDG/IMO
Hazard Class
N/A

RID
Not regulated

ADR
Not regulated

ADN
Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA
Complies

DSL
All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
- **Acute Health Hazard**: No
- **Chronic Health Hazard**: No
- **Fire Hazard**: No
- **Sudden release of pressure hazard**: No
- **Reactive Hazard**: No

**CWA (Clean Water Act)**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**
This product does not contain any substances regulated by state right-to-know regulations.

**International Regulations**

**Canada**
**WHMIS Hazard Class**
Non-controlled

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and Chemical Hazards - Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Prepared By**
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

**Issuing Date**
23-Apr-2015

**Revision Date**
23-Apr-2015

**Revision Note**
No information available

**Disclaimer**
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with any other materials or in any process, unless specified in the text

End of Safety Data Sheet
AJAX TRADITIONAL DISHWASHING HAND LIQUID ORANGE - PALMOLIVE TRADITIONAL DISHWASHING HAND LIQUID ORANGE

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Version 1.0  SDS Number: 660000002334  Revision Date: 2016/02/25

SECTION 1. IDENTIFICATION

Product name : AJAX TRADITIONAL DISHWASHING HAND LIQUID ORANGE - PALMOLIVE TRADITIONAL DISHWASHING HAND LIQUID ORANGE

Product code : 200000049985

Material : B02928820048

Manufacturer or supplier's details

Company : Colgate-Palmolive Co
300 Park Avenue
New York, NY 10022

Telephone : US: Consumer Affairs - 1-800-468-6502

Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Medical Emergency (24HR): For MEDICAL EMERGENCIES involving this product call: (888) 489-3861

Recommended use of the chemical and restrictions on use

Recommended use : A formulated dishwashing liquid

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Not a hazardous substance or mixture.

GHS Label element
Not a hazardous substance or mixture.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAURAMIDOPROPYLDIMETHYLAMINE OXIDE</td>
<td>61792-31-2</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>SODIUM CHLORIDE</td>
<td>7647-14-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES
AJAX TRADITIONAL DISHWASHING HAND LIQUID ORANGE - PALMOLIVE TRADITIONAL DISHWASHING HAND LIQUID ORANGE

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General advice: No hazards which require special first aid measures.

If inhaled: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous combustion products: No hazardous combustion products are known.

Further information: Standard procedure for chemical fires.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: No special environmental precautions required.

Methods and materials for containment and cleaning up: Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Advice on safe handling: For personal protection see section 8.
AJAX TRADITIONAL DISHWASHING HAND LIQUID ORANGE - PALMOLIVE TRADITIONAL DISHWASHING HAND LIQUID ORANGE

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No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAURAMIDOPROPYLDIMETYLHYLAMINE OXIDE</td>
<td>61792-31-2</td>
</tr>
<tr>
<td>SODIUM CHLORIDE</td>
<td>7647-14-5</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : orange

pH : 7.2

Flash point : > 200 °F

Density : 1.009 g/cm3

SECTION 10. STABILITY AND REACTIVITY
Reactivity: Stable under recommended storage conditions.
Chemical stability: No decomposition if stored and applied as directed.
Possibility of hazardous reactions: No hazards to be specially mentioned.
Conditions to avoid: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:
Acute oral toxicity: LC50 (Rat): 500 - 1,000 mg/kg
Method: OECD Test Guideline 423

Acute inhalation toxicity: Remarks: No data available

Acute dermal toxicity: LC50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

SODIUM CHLORIDE:
Acute oral toxicity: LD50 (Rat): 3,550 mg/kg

Acute inhalation toxicity: LC50 (Rabbit): > 42,000 mg/l
Exposure time: 1 h
Test atmosphere: No information available.
Method: No information available.

Acute dermal toxicity: LD50 (Rabbit): > 10,000 mg/kg
Method: No information available.

Skin corrosion/irritation
Not classified based on available information.

Product:
Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.
Components:
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:
Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Mild skin irritation

SODIUM CHLORIDE:
Result: No skin irritation

Serious eye damage/eye irritation
Not classified based on available information.

Product:
Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Components:
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Exposure time: 1 h
Method: OECD Test Guideline 405

SODIUM CHLORIDE:
Result: Mild eye irritation

Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Product:
Remarks: No data available

Components:
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE:
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

SODIUM CHLORIDE:
Exposure routes: Inhalation
Remarks: No data available
Exposure routes: Dermal
Result: Does not cause skin sensitisation.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.
IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

Further information

Product:
Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

SECTION 12. ECOLOGICAL INFORMATION
The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental, Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar
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Ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable) or testing conducted on the final product (i.e., This product is biodegradable).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
- Waste from residues: Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging: Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

DOT: Not regulated.
TDG: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.
ADR: NOT REGULATED.

International Regulation
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Component RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>1000</td>
<td>*</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
AJAX TRADITIONAL DISHWASHING HAND LIQUID ORANGE - PALMOLIVE TRADITIONAL DISHWASHING HAND LIQUID ORANGE

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Version 1.0 SDS Number: 660000002334 Revision Date: 2016/02/25

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric Acid</td>
<td>7664-93-9</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards: Acute Health Hazard
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
Sulfuric Acid SULFURIC ACID
SODIUM HYDROXIDE 1310-73-2
The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
Sulfuric Acid SULFURIC ACID
SODIUM HYDROXIDE 1310-73-2
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations
Massachusetts Right To Know
Sulfuric Acid SULFURIC ACID 0 - 0.1 %

Pennsylvania Right To Know
Water WATER 70 - 90 %
C12-C15 0.6EO Ammonium Sulfate Not Assigned 5 - 10 %
AMMONIUM SULFATE 7783-20-2 0 - 0.1 %

New Jersey Right To Know
Water WATER 70 - 90 %
C12-C15 0.6EO Ammonium Sulfate Not Assigned 5 - 10 %
AJAX TRADITIONAL DISHWASHING HAND LIQUID ORANGE - PALMOLIVE TRADITIONAL DISHWASHING HAND LIQUID ORANGE

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LAURAMIDOPROPYLDIMETHYLAMINE Oxide 61792-31-2  1 - 5 %
SODIUM CHLORIDE 7647-14-5  1 - 5 %

The components of this product are reported in the following inventories:

TSCA : All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

TSCA list
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECS - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; DOT - Department of Transportation; EHS - Extremely Hazardous Substance; HMIS - Hazardous Materials Identification System; MSHA - Mine Safety and Health Administration; NFPA - National Fire Protection Association; RCRRA - Resource Conservation and Recovery Act; RQ - Reportable Quantity; SARA - Superfund Amendments and Reauthorization Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice; ERG - Emergency Response Guide; NTP - National Toxicology Program; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods
AJAX TRADITIONAL DISHWASHING HAND LIQUID ORANGE - PALMOLIVE TRADITIONAL DISHWASHING HAND LIQUID ORANGE

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Further information

NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Special hazard.

HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAMMABILITY</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>0</td>
</tr>
</tbody>
</table>

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Revision Date : 2016/02/25

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US / EN
SECTION 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY

PRODUCT NAME: Bar Keepers Friend Cleanser & Polish

RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:
Relevant identified uses: Cleans and/or polishes most hard, nonporous surfaces.
Do not use on cast iron, granite, marble, wood, fabric, leather, painted surfaces, mirrors, gold, or silver (sterling silver is OK).
Do not use where rinsing thoroughly is difficult, or impossible.

MANUFACTURER:
SerVaas Laboratories, Inc
5240 Walt Place
Indianapolis, IN 46254
USA

CALL FOR PRODUCT TECHNICAL INFORMATION: 1-800-433-5818 (for USA callers)
1-317-636-7760 (for non-USA callers)
www.barkeepersfriend.com

SECTION 2 - HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MIXTURE:
Skin irritation 3 - H316
Eye irritation 2A - H319

LABEL ELEMENTS:
SIGNAL WORD: Warning
HAZARD PICTOGRAM:

HAZARD STATEMENTS:
H316 Causes mild skin irritation
H319 - Causes serious eye irritation

PREVENTION:
P264 Wash hands thoroughly after handling
P280 Wear eye protection / face protection

RESPONSE:
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice / attention. If medical advice is needed, have container at hand.
P332+P313 If skin irritation occurs, get medical attention. If medical advice is needed, have container in hand.
SECTION 3 - COMPOSITION / INFORMATION ON THE INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>% By Weight</th>
<th>CAS Reg. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FELDSPAR*</td>
<td>Confidential</td>
<td>68476-25-5</td>
</tr>
<tr>
<td>LINEAR SODIUM DODECYL BENZENE SULFONATE (DDBSA)</td>
<td>Confidential</td>
<td>69669-44-9</td>
</tr>
<tr>
<td>OXALIC ACID</td>
<td>7.5 - 9.5</td>
<td>144-62-7</td>
</tr>
</tbody>
</table>

*not regulated as hazardous materials

SECTION 4 - FIRST AID MEASURES

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention. If medical advice is needed, have container at hand.

IF INGESTED: Drink milk or water and call a doctor. Do not induce vomiting. Get medical advice / attention. If medical advice is needed, have container at hand.

IF ON SKIN: Wash with soap and water. If skin irritation occurs, get medical attention. If medical advice is needed, have container in hand.

SECTION 5 - FIREFIGHTING MEASURES

Not a fire hazard. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIREFIGHTING INSTRUCTIONS: Wear NIOSH approved self-contained breathing apparatus and protective clothing appropriate for a chemical fire. Cool fire-exposed containers with water spray. Oxalic acid may decompose to carbon monoxide (CO) and formic acid (HCOOH) in fire conditions.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: For a small spill, wipe up with a mop, paper towels, or cloths. For large spills, use an absorbent such as kitty litter to contain spills. Carefully sweep up, raising a minimum amount of dust, and discard into a household waste container for disposal.

WASTE DISPOSAL METHOD: Dispose according to the local, state, or federal regulations. Use baking soda to neutralize acid. Wear protective equipment as needed (see section 8).

SECTION 7 - HANDLING AND STORAGE

CONDITIONS FOR SAFE STORAGE: Keep out of reach of children and domestic animals. Store in a dry place. Keep FROM FREEZING. DO NOT STORE WHERE TEMPERATURE MAY EXCEED 140° F.

CONDITIONS FOR SAFE USE: Follow use directions on the label. Apply a small amount onto a wet surface or a damp cloth or sponge, then rub gently. Do not mix with other chemicals including bleach or ammonia.

Wash hands after use. For prolonged use or sensitive skin, wear waterproof gloves. Respiratory protection is not normally required except as described for firefighting, or if the product is mixed with bleach or ammonia.
SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PRIMARY ROUTES OF EXPOSURE: Dermal contact, hand-to-eye contact. In case of eye contact, see Section 4, First Aid.
ACCIDENTAL OR DELIBERATE INGESTION: Bar Keepers Friend Cleanser & Polish is of minimal oral toxicity. For ingestion of a large quantity, see Section 4: First Aid.
INDIVIDUAL PROTECTION MEASURES: Prolonged contact may produce dry skin or irritation in some individuals. For prolonged contact or sensitive skin, wear protective gloves (e.g. those meant for household cleaning.)
EXPOSURE LIMITS: Oxalic acid: ACGIH TLV/ OSHA PEL/ NIOSH REL 1 mg/M3 (TWA) 2 (STEL).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid (powder) COLOR: white
ODOR: negligible pH: 1.5 to 2.5 (depending on typical dilution)
FREEZING: NA BOILING POINT: NA
FLASH POINT: not flammable EVAPORATION RATE: NA
SPECIFIC GRAVITY: 0.85 - 0.95 SOLUBILITY: Oxalic acid and surfactant are soluble in water.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable
REACTIVITY: Incompatible with chlorine bleach, ammonia, and alkaline products.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxalic acid may decompose to carbon monoxide (CO) and formic acid (HCOOH) in fire conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:
OXALIC ACID: Oral LD50 >7500 mg/kg (rat)
Dermal LD50 not determinable
Eye irritant
Slight skin irritant
Inhalation LD50 not determined
Non sensitizer
DDBSA Moderate skin and eye irritant

SECTION 12 - ECOLOGICAL INFORMATION

Bar Keepers Friend Cleanser & Polish is of minimal risk to terrestrial wildlife.
Oxalic acid and DDBSA are water soluble. Dissolution of these substances into bodies of water may cause short-term risk to fish and other aquatic organisms. Dissipation in the environment is rapid.
In case of spill, prevent runoff into bodies of water. Clean up spills as described in Section 6.
Bar Keepers Friend Cleanser & Polish may be disposed of in household garbage.

**SECTION 14 - TRANSPORT INFORMATION**

<table>
<thead>
<tr>
<th>DOT TRANSPORTATION NUMBER:</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACKING GROUP:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>MARITIME INFORMATION:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>HAZARDOUS SUBSTANCES REPORT QUANTITY:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>TDG CLASSIFICATION:</td>
<td>Consumer Commodity-Transborder Consignment</td>
</tr>
<tr>
<td>ADR CLASSIFICATION:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IMDG CLASSIFICATION:</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IATA CLASSIFICATION:</td>
<td>Does not qualify in manufactured case lot size</td>
</tr>
</tbody>
</table>

**SECTION 15 - REGULATORY INFORMATION**

U.S. FEDERAL AND STATE REGULATIONS: SARA Title III Section 313 Toxic Chemical Notification & RELEASE REPORTING: None OTHER CLASSIFICATION: Not controlled under WHMIS (Canada)

**SECTION 16 - OTHER INFORMATION**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards: 2</th>
<th>Flammability: 0</th>
<th>Instability: 0</th>
<th>Special: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazards: 2</td>
<td>Flammability: 0</td>
<td>Physical Hazards: 0</td>
<td></td>
</tr>
</tbody>
</table>

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of SerVaas Laboratories, Inc. knowledge. SerVaas Laboratories, Inc. makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. SerVaas Laboratories, Inc. disclaims all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: June 12, 2015

Supersedes document dated: 5/15/2015

Prepared by: P. SerVaas, SerVaas Laboratories, Inc.
I Product: FRESH SCENT CLOROX® DISINFECTING WIPES

Description: FRAGRANCED, MOISTENED TOWELETTE

Other Designations

EPA Reg. No. 5813-58

Distributor

Clorox Sales Company
1221 Broadway
Oakland, CA 94612

Emergency Telephone Nos.

For Medical Emergencies call:
(800) 446-1014
For Transportation Emergencies Chemtrec
(800) 424-9300

II Health Hazard Data

Eye Contact: Can cause moderate eye irritation.
Ingestion: Liquid should be practically non-toxic if ingested.
Skin Contact: Prolonged skin contact may produce minor irritation.

FIRST AID: EYES- Flush with plenty of water. Call a physician if irritation persists. IF SWALLOWED- Drink a glassful of water. Call a physician or poison control center. SKIN- Wash thoroughly with soap and water after handling. INHALATION- If breathing is effected, move to fresh air.

Under normal consumer use conditions the likelihood of any adverse health effects are low.

III Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Concentration</th>
<th>Worker Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethyl-benzyl ammonium chloride</td>
<td>0.145%</td>
<td>Not established</td>
</tr>
<tr>
<td>n-Alkyl(C12, 68%, C14, 32%) Dimethyl Ethylbenzyl ammonium chloride</td>
<td>0.145%</td>
<td>Not established</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>1-5%</td>
<td>200 ppm/400 ppm¹</td>
</tr>
<tr>
<td>CAS #67-63-0</td>
<td></td>
<td>400 ppm²</td>
</tr>
</tbody>
</table>

¹TLV-TWA- Threshold Limit Value-Time Weighted Average. STEL- Short Term Exposure Limit. OEL- OHSA Permissible Exposure Limit

None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen lists.

IV Special Protection and Precautions

No special protection or precautions have been identified for using this product under directed consumer use conditions.

The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale or prolonged exposure.

Hygienic Practices: Wear safety glasses. Use rubber or nitrile gloves if in contact liquid, especially for prolonged periods. Engineering Controls: Use general ventilation to minimize exposure to vapor or mist. Work Practices: Avoid eye and skin contact and inhalation of vapor or mist. Avoid contact with food. Not for personal cleansing.

KEEP OUT OF THE REACH OF CHILDREN

V Spill Procedures/Waste Disposal

Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material.

Waste Disposal: Disposal must be made in accordance with applicable federal, state and local regulations.

VI Fire and Explosion Data

Flashpoint: >119°F Method: Closed cup. Unusual Fire and Explosion Hazards: None

IX Physical Data

Flashpoint: >119°F
Specific Gravity: 0.99 g/cc.
PH: 5.0-6.0
Solubility in Water: Liquid is completely dispersible
COLGATE CAVITY PROTECTION TOOTHPASTE - GREAT REGULAR FLAVOR

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0     SDS Number: 660000001966     Revision Date: 2015/12/11

SECTION 1. IDENTIFICATION

Product name : COLGATE CAVITY PROTECTION TOOTHPASTE - GREAT REGULAR FLAVOR

Product code : 200000033618
Material : B05404970010

Manufacturer or supplier's details
Company : Colgate-Palmolive Co
300 Park Avenue
New York, NY 10022

Telephone : US: Consumer Affairs - 1-800-468-6502

Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Global-CHEMTREC: +1 703-741-5970

Medical Emergency (24HR): For MEDICAL EMERGENCIES involving this product call:
(888) 489-3861

Recommended use of the chemical and restrictions on use
Recommended use : A formulated dentifrice.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Skin irritation : Category 2
Eye irritation : Category 2A
Skin sensitisation : Category 1

GHS Label element
Hazard pictograms : ![Exclamation Mark]

Signal word : Warning
Hazard statements : H315 Causes skin irritation.
COLGATE CAVITY PROTECTION TOOTHPASTE- GREAT REGULAR FLAVOR

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0  SDS Number: 660000001966  Revision Date: 2015/12/11

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements

Prevention:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICALCIUM PHOSPHATE DIHYDRATE</td>
<td>7789-77-7</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>GLYCERIN</td>
<td>56-81-5</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>CARVONE</td>
<td>6485-40-1</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>CARVONE</td>
<td>99-49-0</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice: No hazards which require special first aid measures.

If inhaled: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
If symptoms persist, call a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.  
Keep eye wide open while rinsing.

If swallowed:  
- Clean mouth with water and drink afterwards plenty of water.  
- Do not give milk or alcoholic beverages.  
- Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:  
- Causes skin irritation.  
- May cause an allergic skin reaction.  
- Causes serious eye irritation.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media:  
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous combustion products:  
- No hazardous combustion products are known.

Further information:  
- Standard procedure for chemical fires.

Special protective equipment for firefighters:  
- In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:  
- No special environmental precautions required.

Methods and materials for containment and cleaning up:  
- Wipe up with absorbent material (e.g. cloth, fleece).  
- Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion:  
- Normal measures for preventive fire protection.

Advice on safe handling:  
- For personal protection see section 8.  
- No special handling advice required.

Conditions for safe storage:  
- Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid:  
- No special restrictions on storage with other products.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCERIN</td>
<td>56-81-5</td>
<td>TWA (mist, respirable fraction)</td>
<td>5 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (mist, total dust)</td>
<td>15 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Mist - total dust)</td>
<td>10 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Mist - respirable fraction)</td>
<td>5 mg/m3</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Hazardous components without workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DICALCIUM PHOSPHATE DIHYDRATE</td>
<td>7789-77-7</td>
</tr>
<tr>
<td>CARVONE</td>
<td>6485-40-1</td>
</tr>
<tr>
<td>CARVONE</td>
<td>99-49-0</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection:

Remarks: For prolonged or repeated contact use protective gloves.

Eye protection: Safety glasses

Skin and body protection: Protective suit

Hygiene measures: General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: paste

Colour: white

pH: 7.4 - 8.4

Flash point: > 200 °F
SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.
Chemical stability: No decomposition if stored and applied as directed.
Possibility of hazardous reactions: No hazards to be specially mentioned.
Conditions to avoid: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: Acute toxicity estimate: 4,535 mg/kg
Method: Calculation method
Acute dermal toxicity: Acute toxicity estimate: 4,392 mg/kg
Method: Calculation method

Components:
DICALCIUM PHOSPHATE DIHYDRATE:
Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg
Method: Acute toxicity estimate
Acute inhalation toxicity: LC50 (Rabbit): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Acute toxicity estimate
Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg
Method: Acute toxicity estimate

GLYCERIN:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity: Remarks: No data available
Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg
Method: No information available.

CARVONE:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
**Acute inhalation toxicity**
Remarks: No data available

**Acute dermal toxicity**
LD50 (Rabbit): > 2,000 mg/kg
Method: No information available.

**CARVONE**

**Acute oral toxicity**
LD50 (Rat): 1,640 mg/kg

**Acute inhalation toxicity**
Remarks: No data available

**Acute dermal toxicity**
LD50 (Rat): 2,000 - 5,000 mg/kg
Method: No information available.

**Skin corrosion/irritation**
Causes skin irritation.

**Product:**
Remarks: According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

**Components:**

**DICALCIUM PHOSPHATE DIHYDRATE:**
Result: Severe skin irritation

**GLYCERIN:**
Result: No skin irritation

**CARVONE:**
Remarks: No data available

**CARVONE:**
Result: No skin irritation

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Product:**
Remarks: According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

**Components:**

**DICALCIUM PHOSPHATE DIHYDRATE:**
Result: Irritation to eyes, reversing within 21 days

**GLYCERIN:**
Remarks: No data available

**CARVONE:**
Result: No eye irritation

CARVONE:
Result: No eye irritation

Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Product:
Remarks: No data available

Components:
DICALCIUM PHOSPHATE DihYDRATE:
Exposure routes: Inhalation
Result: Does not cause respiratory sensitisation.

Exposure routes: Dermal
Result: Does not cause skin sensitisation.

GLYCERIN:
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Result: Does not cause skin sensitisation.

CARVONE:
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Result: May cause sensitisation by skin contact.

CARVONE:
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Result: May cause sensitisation by skin contact.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

IARC
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

Further information

Product:
Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

SECTION 12. ECOLOGICAL INFORMATION

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental, Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable) or testing conducted on the final product (i.e., This product is biodegradable).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues : Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging : Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.
COLGATE CAVITY PROTECTION TOOTHPASTE- GREAT REGULAR FLAVOR

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0 SDS Number: 660000001966 Revision Date: 2015/12/11

SECTION 14. TRANSPORT INFORMATION

DOT : Not regulated.
TDG : Not regulated.
IATA : Not regulated.
IMDG : Not regulated.
ADR : NOT REGULATED.

International Regulation
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Component RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM FLUORIDE</td>
<td>7681-49-4</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):
GLYCERIN 56-81-5

Clean Water Act
The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:
SODIUM FLUORIDE 7681-49-4
The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:
SODIUM FLUORIDE 7681-49-4
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations
Massachusetts Right To Know
GLYCERIN 56-81-5 20 - 30 %

Pennsylvania Right To Know
DICALCIUM PHOSPHATE DIHYDRATE 7789-77-7 30 - 50 %
Water WATER 20 - 30 %
GLYCERIN 56-81-5 20 - 30 %
SODIUM SULFATE 7757-82-6 0 - 0.1 %
SODIUM FLUORIDE 7861-49-4 0 - 0.1 %

New Jersey Right To Know
DICALCIUM PHOSPHATE DIHYDRATE 7789-77-7 30 - 50 %
Water WATER 20 - 30 %
GLYCERIN 56-81-5 20 - 30 %
SODIUM C12-16 ALKYL SULFATE 68585-47-7 1 - 5 %
CELLULOSE GUM 9000-11-7 1 - 5 %

SECTION 16. OTHER INFORMATION

Full text ofother abbreviations
(Q)SAR - (Quantitative) Structure Activity Relationship; ASTM - American Society for the Testing of Materials; bw - Body weight; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous
COLGATE CAVITY PROTECTION TOOTHPASTE- GREAT REGULAR FLAVOR

This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0  SDS Number: 660000001966  Revision Date: 2015/12/11

Further information

NFPA:

Flammability

Health

Instability

Special hazard.

HMIS III:

HEALTH  3

FLAMMABILITY  1

PHYSICAL HAZARD  0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Revision Date: 2015/12/11

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific
This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.0  
SDS Number: 660000001966  
Revision Date: 2015/12/11

material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : COLGATE KIDS TOOTHPASTE CHARACTER BUBBLE FRUIT
MSDS Number : 200000026797
CAS-No. : Not applicable - product is a mixture
General Use : A formulated dentifrice.

Company : Colgate-Palmolive Canada Inc.
Two Morneau Shepell Centre, 6th Fl.
895 Don Mills Road
Toronto, Ontario, M3C 1W3, Canada

Telephone : Emergency telephone number
For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Medical Emergency (24HR): For MEDICAL EMERGENCIES involving this product call: (888) 489-3861

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview
Form : Gel
Appearance : Blue
Odour : Fruity

Potential Health Effects
Eye contact : May cause eye irritation.
Skin contact : May cause skin irritation upon prolonged contact.
Inhalation : No adverse effects due to inhalation are expected.
Ingestion : May be harmful if swallowed in large quantities.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components
OSHA-REGULATED COMPONENTS (present at a concentration of > or = 1%)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration *</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYNTHETIC AMORPHOUS SILICA PRECIPITATED</td>
<td>112926-00-8</td>
<td>10.00 - 30.00</td>
</tr>
</tbody>
</table>
COLGATE KIDS TOOTHPASTE CHARACTER BUBBLE FRUIT

This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.2   Revision Date 11/28/2012   Print Date 11/28/2012

*All concentrations are present by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Carcinogenicity:**

Listed Carcinogens: The following components, present at a concentration of > or = 0.1%, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), OSHA or ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**SECTION 4. FIRST AID MEASURES**

**First aid procedures**

**Eye contact**: Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

**Skin contact**: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

**Inhalation**: Not Applicable

**Ingestion**: Drink 8 ounces of clear water. Get medical attention.

**SECTION 5. FIREFIGHTING MEASURES**

**Flammable properties**

**Flash point**: > 200 °F (> 93 °C)

**Fire fighting**

**Suitable extinguishing media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Protective equipment and precautions for firefighters**

**Special protective equipment for firefighters**: Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.
SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protection recommended in Section 8 of the MSDS.

Methods for containment / Methods for cleaning up : Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of water.

SECTION 7. HANDLING AND STORAGE

Storage

Requirements for storage areas and containers : Store at controlled room temperature at 20-25°C (68-77°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Exposure Limits</th>
<th>Source</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYNTHETIC AMORPHOUS SILICA PRECIPITATED</td>
<td>112926-00-8</td>
<td>REL</td>
<td>6 mg/m3</td>
<td>NIOSH/GUIDE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>6 mg/m3</td>
<td>Z1A</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>20 millions of particles per cubic foot of air</td>
<td>Z3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>0.8 mg/m3</td>
<td>Z3</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls : In an industrial work environment, no special precautions or control measures are required.
COLGATE KIDS TOOTHPASTE CHARACTER BUBBLE FRUIT

This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.2  Revision Date 11/28/2012  Print Date 11/28/2012

Personal protective equipment

Protective measures: In an industrial work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact may require protective gloves. For consumer use, no unusual precautions are necessary.

General Hygiene Considerations: In an industrial work environment, avoid eye and prolonged skin contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Gel
Appearance: Blue
Odour: Fruity

Flash point: > 200 °F (> 93 °C)
pH: 7
Density: 1.33 g/cm³

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid: Remarks: Strong oxidizing agents
Hazardous decomposition products: Note: None known.
Hazardous reactions: Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the MSDS.

SECTION 12. ECOLOGICAL INFORMATION

No data available
SECTION 13. DISPOSAL CONSIDERATIONS

Further information: Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in sewers, any body of water or on the ground.

SECTION 14. TRANSPORT INFORMATION

DOT: Not regulated.
TDG: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.

SECTION 15. REGULATORY INFORMATION

US Regulations
SARA

CERCLA Hazardous Substance List (40 CFR 302.4) - Reportable Quantity: 413565 lbs
SODIUM FLUORIDE

Clean Air Act
Clean Air Act 111 Standards of Performance for New Stationary Sources: POLYETHYLENE GLYCOL

Clean Water Act
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): SODIUM FLUORIDE

State Regulations

Massachusetts Right-To-Know List: SYNTHETIC AMORPHOUS SILICA PRECIPITATED
New Jersey Right-To-Know List: WATER
D-SORBITOL
HYDROGENATED STARCH HYDROLYSATE / POLYHYDRIC ALCOHOL
MALTITOL
MANNITOL
SYNTHETIC AMORPHOUS SILICA PRECIPITATED

Pennsylvania Right-To-Know List: WATER
D-SORBITOL
HYDROGENATED STARCH HYDROLYSATE / POLYHYDRIC ALCOHOL
SYNTHETIC AMORPHOUS SILICA PRECIPITATED

Canada

Canadian Workplace Hazardous Materials Information System (WHMIS) Listed Material: SYNTHETIC AMORPHOUS SILICA PRECIPITATED

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Other Information

SECTION 16. OTHER INFORMATION

Further information
This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.2  Revision Date 11/28/2012  Print Date 11/28/2012

MSDS Number : 200000026797

Disclaimer: The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.
Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
CRAYOLA® CHALK

Synonyms
CRAYOLA COLORED CHALK; CRAYOLA DRAWING CHALK; CRAYOLA MOLDED CHALK; CRAYOLA SIDEWALK CHALK/Crayons; CRAYOLA GIANT CHALK; CRAYOLA 3-D CHALK; CRAYOLA GLOW CHALK; CRAYOLA GLITTER CHALK; CRAYOLA TIE DYED CHALK; CRAYOLA CHALKBOARD CHALK; CRAYOLA ANTI-DUST LOW DUST CHALK; PRODUCT CODE(S): 03-4490; 03-4491; 04-4992; 03-4994; 03-4995; 03-4996; 03-4997; 03-4998; 03-5037; 03-5039; 03-5053; 03-5044; 03-5061; 03-5063; 03-5064; 03-5066; 03-5067; 03-5068; 03-5071; 03-5072; 03-5073; 03-5078; 03-5079; 03-5080; 03-5081; 03-5090; 03-5091; 03-5092; 03-5093; 03-5094; 03-5101; 03-5102; 03-5103; 03-5104; 03-5105; 03-5106; 03-5107; 03-5108; 03-5111; 03-5200; 03-5201; 03-5202; 03-5203; 03-5204; 03-5205; 03-5206; 03-5207; 03-5208; 03-5209; 03-5210; 03-5211; 03-5212; 03-5213; 03-5214; 03-5215; 03-5216; 03-5217; 03-5218; 03-5220; 03-5222; 03-5229; 03-5230; 03-5231; 03-5232; 03-5233; 03-5234; 03-5235; 03-5301; 03-5302; 03-5303; 03-5304; 03-5305; 03-5350; 03-5358; 03-5800; 03-5801; 03-5802; 03-5803; 03-5804; 03-5805; 03-5806; 03-7603; 04-1907; 04-1950; 04-1951; 04-2542; 04-5033; 04-5350; 04-5355; 04-5358; 04-5718; 04-5719; 04-5727; 04-5873; 04-6010; 50-1402; 51-0012; 51-2004; 51-0312; 51-0320; 51-0400; 51-0403; 51-0404; 51-0816; 51-1200; 51-1202; 51-1205; 51-1206; 51-1216; 51-1503; 51-1515; 51-1524; 51-1650; 51-2010; 51-2012; 51-2016; 51-2024; 51-2048; 51-2064; 51-2515; 51-3505; 51-3515; 51-3523; 51-4005; 51-4008; 51-4105; 51-4107; 51-4108; 51-4109; 51-4110; 51-5299; 51-8015; 51-8020; 51-8052; 51-8064; 55-4403; 81-1378

Product Description
Finished product.

Product Use
Arts and Crafts

Restrictions on Use
None known.

Details of the supplier of the safety data sheet
CRAYOLA LLC
1100 Church Lane
Easton, PA 18044
Phone: 1-800-272-9652
Emergency Phone #: Health Emergency - Call local POISON CONTROL
E-mail: support@crayola.com

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
None needed according to classification criteria

GHS Label Elements

Symbol(s)
None needed according to classification criteria

Signal Word
None needed according to classification criteria

Hazard Statement(s)
None needed according to classification criteria.

Precautionary Statement(s)

Prevention
None needed according to classification criteria.

Response
None needed according to classification criteria.

Storage
None needed according to classification criteria.

Disposal
Dispose in accordance with all applicable federal, state/regional and local laws and regulations.

Other Hazards
None known.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>Product has been certified as nontoxic by the Art &amp; Creative Materials Institute, Inc. and conforms to ASTM D 4236 standard practice for labeling art materials for acute and chronic adverse health hazards.</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 4 - FIRST AID MEASURES

Inhalation
It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

Skin
It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

Eyes
It is unlikely that emergency treatment will be required. Flush eyes with plenty of water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion
Call a poison control center or doctor immediately for treatment advice.

Most Important Symptoms/Effects
Acute
No information on significant adverse effects.

Delayed
No information on significant adverse effects.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
carbon dioxide, regular dry chemical, regular foam, Water

Unsuitable Extinguishing Media
None known.

Hazardous Combustion Products
Oxides of carbon

Advice for firefighters
Slight fire hazard.

Fire Fighting Measures
Move container from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

**Special Protective Equipment and Precautions for Firefighters**
Wear protective clothing and equipment suitable for the surrounding fire.

---

**Section 6 - ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures**
None.

**Methods and Materials for Containment and Cleaning Up**
Stop leak if possible without personal risk. Collect spilled material in appropriate container for disposal.

---

**Section 7 - HANDLING AND STORAGE**

**Precautions for Safe Handling**
Wash thoroughly after handling. Use methods to minimize dust.

**Conditions for Safe Storage, Including any Incompatibilities**
None needed according to classification criteria.
Store and handle in accordance with all current regulations and standards. See original container for storage recommendations. Keep separated from incompatible substances.

**Incompatible Materials**
oxidizing materials

---

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**
There are no biological limit values for any of this product's components.

**Engineering Controls**
Based on available information, additional ventilation is not required.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/face protection**
Eye protection not required under normal conditions.

**Skin Protection**
Protective clothing is not required under normal conditions.

**Respiratory Protection**
No respirator is required under normal conditions of use. Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

**Glove Recommendations**
Protective gloves are not required under normal conditions.

---

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>various colors</td>
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<tr>
<td>Physical State</td>
<td>solid</td>
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<tr>
<td>Odor</td>
<td>odorless</td>
</tr>
<tr>
<td>Color</td>
<td>various colors</td>
</tr>
</tbody>
</table>
Odor Threshold: Not available  |  pH: Not available
Melting Point: Not available  |  Boiling Point: Not available
Boiling Point Range: Not available  |  Freezing point: Not available
Evaporation Rate: Not available  |  Flammability (solid, gas): Not available
Autoignition Temperature: Not available  |  Flash Point: Not available
Lower Explosive Limit: Not available  |  Decomposition temperature: Not available
Upper Explosive Limit: Not available  |  Vapor Pressure: Not available
Vapor Density (air=1): Not available  |  Specific Gravity (water=1): Not available
Water Solubility: (Insoluble)  |  Partition coefficient: n-octanol/water: Not available
Viscosity: Not available  |  Kinematic viscosity: Not available
Solubility (Other): Not available  |  Density: Not available
Physical Form: solid  |  Molecular Weight: Not available

### Section 10 - STABILITY AND REACTIVITY

**Reactivity**
No hazard expected.

**Chemical Stability**
Stable at normal temperatures and pressure.

**Possibility of Hazardous Reactions**
Will not polymerize.

**Conditions to Avoid**
None reported.

**Incompatible Materials**
oxidizing materials

**Hazardous decomposition products**
Oxides of carbon.

**Thermal decomposition products**
Oxides of carbon
Information on Likely Routes of Exposure

Inhalation
No information on significant adverse effects.

Skin Contact
No information on significant adverse effects.

Eye Contact
No information on significant adverse effects.

Ingestion
No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and no selected endpoints have been identified.

Product Toxicity Data

Acute Toxicity Estimate
No data available.

Immediate Effects
No information on significant adverse effects.

Delayed Effects
No information on significant adverse effects.

Irritation/Corrosivity Data
None

Respiratory Sensitization
No information available for the product.

Dermal Sensitization
No information available for the product.

Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

Germ Cell Mutagenicity
No information available for the product.

Tumorigenic Data
No data available

Reproductive Toxicity
No information available for the product.

Specific Target Organ Toxicity - Single Exposure
No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
No data available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
No information available for the product.

Component Analysis - Aquatic Toxicity
No LOLI ecotoxicity data are available for this product's components.

Persistence and Degradability
No information available for the product.

Bioaccumulative Potential
Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose in accordance with all applicable regulations.

Component Waste Numbers
The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Further information: Not regulated as a hazardous material.

IATA Information:
Further information: Not regulated as dangerous goods.

ICAO Information:
Further information: Not regulated as dangerous goods.

IMDG Information:
Further information: Not regulated as dangerous goods.

TDG Information:
Further information: Not regulated as dangerous goods.

International Bulk Chemical Code
This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C) 2017 reporting categories
No hazard categories applicable.

U.S. State Regulations
None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

Not listed under California Proposition 65

Canada Regulations
Canadian WHMIS Ingredient Disclosure List (IDL)
The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

WHMIS Classification
Not a Controlled Product under Canada's Workplace Hazardous Material Information System

Component Analysis - Inventory
Product has been certified as nontoxic by the Art & Creative Materials Institute, Inc. and conforms to ASM D 4236 standard practice for labeling art materials for acute and chronic adverse health hazards. (Not available)

<table>
<thead>
<tr>
<th></th>
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<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

U.S. Inventory (TSCA)

All of the components of this product are listed on the TSCA Inventory. All components of this product are listed on the DSL.

Section 16 - OTHER INFORMATION

NFPA Ratings
Health: 1 Fire: 1 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes
Updated: 01/07/2016

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC – European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL) ; KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX – Mexico; NDSL – Non-Domestic Substance List (Canada); NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TCCA – Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW – Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA -

Other Information

Disclaimer:
Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.
This industrial Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

1. IDENTIFICATION

Product Name: Crest Cavity Protection - Regular Paste
Product ID: 95056883_RET_NG
Product Type: Finished Product - Consumer (Retail) Use Only
Manufacturer: The Procter & Gamble Company
Mason Business Center
8700 Mason-Montgomery Road
Mason, OH 45040-9462
+1 513 622-1000
E-mail Address: pgsds.im@pg.com
Emergency Telephone: Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./ Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This is a personal care product that is safe for consumers and other users under normal and reasonably foreseeable use.

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Eye Damage / Irritation: Category 2B
Signal Word: WARNING

Hazard Statements: Causes eye irritation
Hazard pictograms: None

Precautionary Statements - Prevention: Wash hands thoroughly after handling
Precautionary Statements - Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention
Precautionary Statements - Storage: None
Precautionary Statements - Disposal: None
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica gel, pptd., cryst.-free</td>
<td>-</td>
<td>No</td>
<td>112926-00-8</td>
<td>15 - 20</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester</td>
<td>-</td>
<td>No</td>
<td>151-21-3</td>
<td>1 - 5</td>
</tr>
<tr>
<td>sodium salt (1:1)</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>-</td>
<td>No</td>
<td>7681-49-4</td>
<td>0.1 - 1.0</td>
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</table>

Active pharmaceutical ingredient

<table>
<thead>
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<th>Chemical Name</th>
<th>Synonyms</th>
<th>CAS-No</th>
<th>Weight %</th>
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</thead>
<tbody>
<tr>
<td>Sodium fluoride</td>
<td></td>
<td>7681-49-4</td>
<td>0.243</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact: None under normal use.

Ingestion: Call a physician or poison control center immediately if overdosed.

Inhalation: None under normal use.

Most important symptoms/effects, acute and delayed: May cause eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media: None.

Special hazard: None known.

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific hazards arising from the chemical: None.
Personal precautions, protective equipment and emergency procedures

Personal precautions
None under normal use conditions.

Advice for emergency responders
Use personal protective equipment as required.

Environmental precautions
Household: Product is safe to dispose of in household garbage or down the drain.
Non-household: Do not discharge product into natural waters without pre-treatment or adequate dilution.

Methods and materials for containment and cleaning up

Methods for containment
No information available.

Methods for cleaning up
No information available.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Mexico PEL</th>
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<tbody>
<tr>
<td>Silica gel, pptd., cryst.-free</td>
<td>112926-00-8</td>
<td>(vacated) TWA: 6 mg/m³ &lt;1% Crystalline silica TWA: 20 mppcf: (80)/(% SiO₂) mg/m³ TWA</td>
<td>TWA: 10 mg/m³</td>
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<tr>
<td>Sodium fluoride</td>
<td>7681-49-4</td>
<td>TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³ F TWA: 2.5 mg/m³ dust (vacated) TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³</td>
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<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Alberta</th>
<th>Quebec</th>
<th>Ontario TWAEV</th>
<th>British Columbia</th>
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<tr>
<td>Silica gel, pptd., cryst.-free</td>
<td>112926-00-8</td>
<td>TWA: 6 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 4 mg/m³ TWA: 1.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>7681-49-4</td>
<td>TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³</td>
<td>TWA: 2.5 mg/m³</td>
</tr>
</tbody>
</table>

No relevant exposure guidelines for other ingredients

Exposure controls

Engineering Measures
No information available

Personal Protective Equipment

Eye Protection
Manufacturing Sites:
Safety glasses with side-shields
Distribution, Workplace and Household Settings:
No special protective equipment required

Hand Protection
No special protective equipment required
## 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>Semi-Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Various color by product</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mint-like, fruity, Spicy</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH value</td>
<td>6.0 - 9.0</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity of Product</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>Products comply with US state and federal regulations for VOC content in consumer products.</td>
<td></td>
</tr>
</tbody>
</table>

## 10. STABILITY AND REACTIVITY

- **Reactivity**: None under normal use conditions.
- **Stability**: Stable under normal conditions.
- **Hazardous polymerization**: Hazardous polymerization does not occur.
- **Hazardous Reactions**: None under normal processing.
- **Conditions to Avoid**: None under normal processing.
- **Materials to avoid**: None in particular.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

#### Information on likely routes of exposure

- **Inhalation**: No known effect.
- **Skin contact**: No known effect.
- **Ingestion**: No known effect.
- **Eye contact**: Avoid contact with eyes. Irritating to eyes.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Acute toxicity**: No known effect.
Skin corrosion/irritation: No known effect.
Serious eye damage/eye irritation: Irritating to eyes.
Skin sensitization: No known effect.
Respiratory sensitization: No known effect.
Germ cell mutagenicity: No known effect.
Neurological Effects: No known effect.
Reproductive toxicity: No known effect.
Developmental toxicity: No known effect.
Teratogenicity: No known effect.
STOT - single exposure: No known effect.
STOT - repeated exposure: No known effect.
Target Organ Effects: No known effect.
Aspiration hazard: No known effect.
Carcinogenicity: No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>151-21-3</td>
<td>977 mg/kg bw (OECD 401; rat)</td>
<td>&gt; 500 mg/kg bw (Read across data C10-16ASO4, NH4; guideline: Standard Procedure #10; fixed dose procedure; rabbit; based on active ingredient)</td>
<td>-</td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>7681-49-4</td>
<td>148.5 mg/kg bw (Similar to EPA OPPTS 870.1100; standard acute method; rat)</td>
<td>&gt; 2000 mg/kg bw (Test substance name not indicated; EPA OPPTS 870.1200; standard acute method; rat)</td>
<td>-</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment. The product is not expected to be hazardous to waste water treatment processes.

Persistence and degradability

Product is biodegradable.

Bioaccumulative potential

Bioaccumulation is unlikely.

Mobility

Is not likely mobile in the environment.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from Residues / Unused Products

Non-household: Product is safe to dispose of in household garbage or down the drain. The product is not expected to be hazardous to waste water treatment processes.

Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Codes (non-household setting) 331

14. TRANSPORT INFORMATION

DOT

Not regulated
15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>CERCLA/SARA 302 TPQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, sodium salt (1:3)</td>
<td>7601-54-9</td>
<td>5000 lb</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>7681-49-4</td>
<td>1000 lb</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Food and Drug Administration (FDA)
The product described in this Material Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on container, box or accompanying literature (where applicable).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, sodium salt (1:3)</td>
<td>7601-54-9</td>
<td>5000 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>7681-49-4</td>
<td>1000 lb</td>
<td>-</td>
<td>-</td>
<td>X</td>
</tr>
</tbody>
</table>

California Proposition 65
This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>New Jersey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica gel, pptd., cryst.-free</td>
<td>112926-00-8</td>
<td>X</td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>7681-49-4</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica gel, pptd., cryst.-free</td>
<td>112926-00-8</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica gel, pptd., cryst.-free</td>
<td>112926-00-8</td>
<td>X</td>
</tr>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>13463-67-7</td>
<td>X</td>
</tr>
<tr>
<td>Phosphoric acid, sodium salt (1:3)</td>
<td>7601-54-9</td>
<td>X</td>
</tr>
<tr>
<td>Methyl salicylate</td>
<td>119-36-8</td>
<td>X</td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>7681-49-4</td>
<td>X</td>
</tr>
<tr>
<td>1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide,</td>
<td>128-44-9</td>
<td>X</td>
</tr>
</tbody>
</table>
International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

Issuing Date: 02-Apr-2015
Revision Date: 02-Apr-2015
Reason for revision Initial Release.

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS
**SECTION I – CHEMICAL / PRODUCT AND COMPANY IDENTIFICATION**

**THE PROCTER & GAMBLE COMPANY**
Mason Business Center
8700 Mason-Montgomery Road
Mason, OH 45040-9462

<table>
<thead>
<tr>
<th>RATING KEY</th>
<th>Hazard Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>4=EXTREME</td>
<td>Health: 1</td>
</tr>
<tr>
<td>3=HIGH</td>
<td>Flammability: 0</td>
</tr>
<tr>
<td>2=MODERATE</td>
<td>Reactivity: 0</td>
</tr>
<tr>
<td>1=SLIGHT</td>
<td></td>
</tr>
</tbody>
</table>

**EMERGENCY PHONE:** Transportation Emergency (24 hour) Telephone Number: CHEMTREC: 1-800-424-9300 in the U.S. and Canada; 1-703-527-3887 for calls originating elsewhere or call the Poison Control Center

**Prepared by:** Jill Karner, CIH
**Issue Date:** February 23, 2011
**Last Reviewed:** N/A

**Material Name:** Crest Complete Multi-Benefit Whitening Plus Scope - Minty Fresh Striped

---

**SECTION II – COMPOSITION AND INGREDIENTS**

**Hazardous ingredients as defined by OSHA, 29 CFR 1910.1200, and/or WHMIS under the HPA. These substances are listed because in their pure bulk form, they meet the OSHA definition of hazardous. Any hazards associated with this finished product are listed in Section III of this MSDS.**

<table>
<thead>
<tr>
<th>Principal Hazardous Components:</th>
<th>CAS Number</th>
<th>Conc. %</th>
<th>Exposure Limit/LC50/LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrated Silica</td>
<td>7631-86-9</td>
<td>10 - 30</td>
<td>20 mppcf (OSHA)</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>0.5 – 1.5</td>
<td>2 mg/m3 (ACGIH)</td>
</tr>
</tbody>
</table>

---

**SECTION III – HAZARDS IDENTIFICATION**

**Emergency Overview:** This mixture is a product regulated by the FDA. Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]; this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions.

<table>
<thead>
<tr>
<th>Eye:</th>
<th>May produce transient superficial eye irritation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin:</td>
<td>Prolonged exposure may produce transient irritation.</td>
</tr>
<tr>
<td>Inhalation:</td>
<td>No applicable information has been found.</td>
</tr>
<tr>
<td>Ingestion:</td>
<td>Ingestion of 1 oz. or more may cause nausea, vomiting, and mild GI irritation.</td>
</tr>
</tbody>
</table>
SECTION IV – FIRST AID MEASURES

**Eye:** Flush eyes with water for 15 minutes.

**Skin:** Discontinue use. See physician or dentist if symptoms persist.

**Inhalation:** Seek medical attention if irritation or other symptoms are present.

**Ingestion:** If a small amount (1 – 3 ounces) has been ingested, administer milk or water to dilute stomach contents. If a large amount has been ingested, administer milk or water and contact a medical professional for further advice.

Additional First Aid Measures: Oral irritation – Discontinue use. See physician if symptoms persist.

SECTION V – FIRE FIGHTING MEASURES

<table>
<thead>
<tr>
<th>Flash Point:</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition Temperature:</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td>Not available</td>
</tr>
<tr>
<td></td>
<td>deg. C</td>
</tr>
<tr>
<td></td>
<td>deg F.</td>
</tr>
<tr>
<td>Flash Point test method:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammable Limits (% by volume in air):</td>
<td>LEL %</td>
</tr>
<tr>
<td></td>
<td>UEL %</td>
</tr>
</tbody>
</table>

**Extinguishing Media:** Use water spray, alcohol foam, or carbon dioxide.

**Explosion Hazards:** Material will not burn.

**Special Instructions:** None

SECTION VI – ACCIDENTAL RELEASE MEASURES

**Personal Safeguards:** Avoid excessive contact and contact with the eyes.

**Environmental Precautions:** Contain spilled material.

**Spill Clean-up Procedures:**

- **Industrial:** Wipe up with sorbent material. Collect and place in a suitable disposal container. This material is not known to possess additional hazards when spilled, beyond those of other non-hazardous solids.

- **Household:** Product used in household may be disposed of in refuse or sewer.

SECTION VII – HANDLING AND STORAGE

**Recommended Storage Temperature:** None

**Personal Precautions for Safe Storage and Handling:** Avoid contact with eyes.

**Conditions for Safe Storage:** Store in cool dry area.

**Other Precautions:** None

SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION

This section only applies to the product when used in an industrial setting.

**Ventilation:** Good general ventilation is sufficient for control.

**Eye Protection:** Wear safety glasses with side shields.

**Respiratory Protection:** None

**Skin Protection:** For brief contact normal work attire is sufficient.

**Other Special Protection:**
SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance / Color</td>
<td>Light green paste striped with green gel</td>
</tr>
<tr>
<td>Odor</td>
<td>Minty</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Available</td>
</tr>
<tr>
<td>Physical State</td>
<td>Striped paste/gel toothpaste</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Moderately soluble</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>1.30 – 1.42</td>
</tr>
<tr>
<td>pH</td>
<td>4.0 – 9.5</td>
</tr>
</tbody>
</table>

Other Data: Product complies with State and Federal regulations for VOC content.

SECTION X – STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Possibility of Hazardous Reaction</td>
<td>None known</td>
</tr>
<tr>
<td>Incompatibility (Materials to avoid)</td>
<td>None known</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>None known</td>
</tr>
</tbody>
</table>

SECTION XI – TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Effects</td>
<td>No chronic health effects reported.</td>
</tr>
<tr>
<td>Target Organs</td>
<td>No target organs reported.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No applicable information has been found.</td>
</tr>
<tr>
<td>NTP</td>
<td>No</td>
</tr>
<tr>
<td>IARC</td>
<td>No</td>
</tr>
</tbody>
</table>

SECTION XII – ECOLOGICAL INFORMATION

Relevant ecotoxicity and fate data for ingredients in this formulation have been reviewed. Under normal and foreseeable consumer uses, there are no concerns for aquatic organisms exposed to product ingredients at the anticipated environmental concentrations. The surfactant(s) used in the formulation biodegrade rapidly and do not accumulate in the environment. The product is compatible with down-the-drain disposal routes, including municipal wastewater treatment processes and septic tank systems. This product is intended for dispersive use and should not be disposed of directly into the environment.
SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal is to be performed in compliance with Federal, State/Provincial and Local regulations.

**Households:** Product is safe for disposal down the drain after use.

**Industrial Setting:**

<table>
<thead>
<tr>
<th>Agency</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>US EPA</td>
<td>This material is not considered a hazardous waste under United States Resource Conservation and Recovery Act when disposed.</td>
</tr>
</tbody>
</table>

SECTION XIV – TRANSPORTATION

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT (transportation by ground)</td>
<td>Non-Regulated</td>
</tr>
<tr>
<td>IMDG (transportation by sea)</td>
<td>Non-Regulated</td>
</tr>
<tr>
<td>IATA (transportation by air)</td>
<td>Non-Regulated</td>
</tr>
</tbody>
</table>

SECTION XV – ADDITIONAL REGULATORY INFORMATION

The product(s) described in this Material Safety Data Sheet are regulated under the Federal Food, Drug and Cosmetics Act and are safe to use as per directions on container, box or accompanying literature (where applicable).

**US Federal:**

- **TSCA** – All intentionally-added components of this product are listed on the US TSCA Inventory.
- **SARA 313/302/311/304/312 chemicals:** None

**US States:**

- **California:** This product has been evaluated and does not require warning labeling under California Proposition 65.

- **State Right-to-Know and CERCLA:** The following ingredients present in the finished product are listed on state right-to-know lists or state work exposure lists.

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CERCLA RQ</th>
<th>State(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Fluoride (&lt; 1% Conc.) (CAS #: 7681-49-4)</td>
<td>1,000 lbs</td>
<td>Below Reporting Threshold</td>
</tr>
<tr>
<td>Hydrated Silica</td>
<td>Not Applicable</td>
<td>CA, IN, KY, MA, MN, NC, NJ, OR, PA</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1,000 lbs</td>
<td>CA, CT, IL, IN, KY, MA, MN, NC, NJ, NY, OR, PA</td>
</tr>
</tbody>
</table>

SECTION XVI – OTHER INFORMATION

**DISCLAIMER:** This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.
1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Crest Pro-Health Stages Micky Minnie Toothpaste</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product ID</td>
<td>95936150_A_RET_NG</td>
</tr>
<tr>
<td>Product Type</td>
<td>Finished Product - Consumer (Retail) Use Only</td>
</tr>
</tbody>
</table>
| Synonyms                          | Crest Pro-Health Stages Toothpaste Berry Blue (95936150_B_RET_NG)  
Crest Pro-Health Stages Toothpaste Winnie the Pooh (95936150_C_RET_NG) |
| Manufacturer                      | The Procter & Gamble Company                     |
|                                   | Mason Business Center                           |
|                                   | 8700 Mason-Montgomery Road                      |
|                                   | Mason, OH 45040-9462                            |
|                                   | +1 513 622-1000                                 |
| E-mail Address                    | pgsds.im@pg.com                                 |
| Emergency Telephone               | Transportation (24 HR)                          |
|                                   | CHEMTREC - 1-800-424-9300                       |
|                                   | (U.S./ Canada) or 1-703-527-3887                |
|                                   | Mexico toll free in country: 800-681-9531       |

2. HAZARD IDENTIFICATION

This is a personal care product that is safe for consumers and other users under normal and reasonably foreseeable use.

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

<table>
<thead>
<tr>
<th>Eye Damage / Irritation</th>
<th>Category 2B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal Word</td>
<td>WARNING</td>
</tr>
<tr>
<td>Hazard Statements</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>Hazard pictograms</td>
<td>None</td>
</tr>
<tr>
<td>Precautionary Statements -</td>
<td>Wash hands thoroughly after handling</td>
</tr>
<tr>
<td>Prevention</td>
<td></td>
</tr>
<tr>
<td>Precautionary Statements -</td>
<td>IF IN EYES: Rinse cautiously with water for</td>
</tr>
<tr>
<td>Response</td>
<td>several minutes. Remove contact lenses, if</td>
</tr>
<tr>
<td></td>
<td>present and easy to do. Continue rinsing</td>
</tr>
<tr>
<td></td>
<td>If eye irritation persists: Get medical advice/</td>
</tr>
<tr>
<td></td>
<td>attention</td>
</tr>
<tr>
<td>Precautionary Statements -</td>
<td>None</td>
</tr>
<tr>
<td>Storage</td>
<td></td>
</tr>
</tbody>
</table>
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, sodium salt (1:3)</td>
<td>-</td>
<td>No</td>
<td>7601-54-9</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>-</td>
<td>No</td>
<td>151-21-3</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>-</td>
<td>No</td>
<td>7681-49-4</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>-</td>
<td>No</td>
<td>141-78-6</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Menthol</td>
<td>-</td>
<td>No</td>
<td>2216-51-5</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Ethyl butyrate</td>
<td>-</td>
<td>No</td>
<td>105-54-4</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Methyl salicylate</td>
<td>-</td>
<td>No</td>
<td>119-36-8</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>p-Methoxybenzyl Acetate</td>
<td>-</td>
<td>No</td>
<td>104-21-2</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Raspberry Ketone</td>
<td>-</td>
<td>No</td>
<td>5471-51-2</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Isoamyl Acetate</td>
<td>-</td>
<td>No</td>
<td>123-92-2</td>
<td>0.1 - 1.0</td>
</tr>
</tbody>
</table>

Active pharmaceutical ingredient

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium fluoride</td>
<td></td>
<td>7681-49-4</td>
<td>0.243</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

**Eye contact**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin contact**
None under normal use.

**Ingestion**
Call a physician or poison control center immediately if overdosed.

**Inhalation**
None under normal use.

**Most important symptoms/effects, acute and delayed**
May cause eye irritation.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**
None.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions None under normal use conditions.

Advice for emergency responders Use personal protective equipment as required.

Environmental precautions Household: Product is safe to dispose of in household garbage or down the drain. Non-household: Do not discharge product into natural waters without pre-treatment or adequate dilution.

Methods and materials for containment and cleaning up

Methods for containment No information available.

Methods for cleaning up No information available.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Exposure guidelines are not relevant when product is used as intended in a household setting.

Exposure controls

Engineering Measures No information available

Personal Protective Equipment

Eye Protection Manufacturing Sites: Safety glasses with side-shields Distribution, Workplace and Household Settings: No special protective equipment required

Hand Protection No special protective equipment required
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>Semi-Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Various color by product</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mint-like, Spicy, fruity</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH value</td>
<td>4.0 - 7.0</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity of Product</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>Products comply with US state and federal regulations for VOC content in consumer products.</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity                     None under normal use conditions.
Stability                      Stable under normal conditions.
Hazardous polymerization       Hazardous polymerization does not occur.
Hazardous Reactions            None under normal processing.
Conditions to Avoid            None under normal processing.
Materials to avoid             None in particular.
Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information
Information on likely routes of exposure

Inhalation                     No known effect.
Skin contact                   No known effect.
Ingestion                      No known effect.
Eye contact                    Avoid contact with eyes. Irritating to eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment. The product is not expected to be hazardous to waste water treatment processes.

Persistence and degradability No information available.
Bioaccumulative potential No information available.
Mobility No information available.
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment
Waste from Residues / Unused Products Non-household: Product is safe to dispose of in household garbage or down the drain. The product is not expected to be hazardous to waste water treatment processes.
Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Codes 331

14. TRANSPORT INFORMATION

DOT Not regulated
IMDG Not regulated
IATA Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations
SARA 313 Not applicable for consumer use
CERCLA
Not applicable for consumer use

Food and Drug Administration (FDA)
The product described in this Material Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on container, box or accompanying literature (where applicable)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
Not applicable for consumer use

Clean Water Act
Not applicable for consumer use

California Proposition 65
This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK)
Not applicable for consumer use

International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

Issuing Date: 07-Apr-2015
Revision Date: 07-Apr-2015
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS
1. Product and Company Identification

Product Name: EASY-OFF® Fume Free Max Oven Cleaner Aerosol

UPC CODES: Refer to Section 16

CAS #: Mixture

Product use: Oven cleaner

Distributed by: Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225

In Case of Emergency: 1-800-228-4722
Transportation Emergencies: 24 Hour Number:
North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

2. Hazards Identification

Emergency overview: CAUTION
EYE IRRITANT
Contents under pressure.
DO NOT get in eyes.
 Wash hands after application and removal.
Do not puncture or incinerate container.
DO NOT expose to heat or store at temperatures above 120°F (49°C).

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects:

Routes of exposure: Eye, Skin contact, Inhalation.

Eyes: Irritating to eyes.

Skin: None expected during normal conditions of use.

Inhalation: None expected during normal conditions of use.
However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Ingestion: Health injuries are not known or expected under normal use.


Chronic effects: The finished product is not expected to have chronic health effects.

Signs and symptoms: irritation

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, dipotassium salt</td>
<td>584-08-7</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</td>
<td>141-43-5</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>
4. First Aid Measures

First aid procedures

Eye contact  If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.

Skin contact  Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists.

Inhalation  Move to fresh air. If symptoms develop or persist, seek medical advice.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

Ingestion  Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician or Poison Control Centre immediately.

Notes to physician  Treat patient symptomatically.

General advice  Do not puncture or incinerate container. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties  Aerosol flame extension less than 18 inches (45 cm).

Extinguishing media

Suitable extinguishing media  Treat for surrounding material.

Unsuitable extinguishing media  Not available

Protection of firefighters

Specific hazards arising from the chemical  Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

Protective equipment for firefighters  Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products  May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

Explosion data

Sensitivity to mechanical impact  Not available

Sensitivity to static discharge  Not available

6. Accidental Release Measures

Personal precautions  Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment  Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up  Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling  CAUTION

Contents under pressure.
Do not puncture or incinerate container.
Use according to package label instructions.
Use only in well-ventilated areas.
Avoid contact with eyes.
Keep away from open flames, hot surfaces and sources of ignition.
Wash hands after handling and before eating.
Storage
Keep out of reach of children.
Do not store at temperatures above 49 °C (120.2°F).
Avoid freezing to prevent bursting of the container.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Exposure limits</th>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carbonic acid, dipotassium salt</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>Ethanol, 2-amino-</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 3 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL: 6 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 3 ppm</td>
</tr>
<tr>
<td></td>
<td>Isobutane</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA: 1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

Engineering controls
General ventilation normally adequate.

Personal protective equipment

Eye / face protection
Avoid contact with eyes.
Always wear tightly fitting safety goggles.

Hand protection
No special requirements under normal use conditions.
Protective gloves are recommended for prolonged or repeated exposure.

Skin and body protection
Follow label directions carefully.

Respiratory protection
Not normally required under normal use conditions.
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

General hygiene considerations
Avoid contact with skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

| Appearance | Foamy Spray |
| Color      | Light tan to White. |
| Form       | Aerosol. |
| Odor       | Lemon. |
| Odor threshold | Not available |
| Physical state | Gas |
| pH         | 12.5 |
| Freezing point | Not available |
Pour point  Not available
Boiling point  Not applicable
Flash point  > 199.94 °F (> 93.3 °C) (Concentrate)
Evaporation rate  Not available
Flammability limits in air, lower, % by volume  Not available
Flammability limits in air, upper, % by volume  Not available
Vapor pressure  Not determined
Vapor density  Not determined
Specific gravity  1.052 @ 25°C (Concentrate)
Octanol/water coefficient  Not available
Solubility (H2O)  >95% @ 70°F
Auto-ignition temperature  Not available
Viscosity  Not available

10. Stability and Reactivity

Chemical stability  Stable under recommended storage conditions.
Conditions to avoid  Do not spray on pilot light, electrical connections, switch, heating elements, or thermostats.
Do not spray onto aluminum or painted surfaces as damage to these surfaces may occur.
Do not use on grill exterior, interior or components.
Aerosol containers are unstable at temperatures above 49°C (120.2°F). Do not mix with other chemicals. Do not freeze.

Incompatible materials  Acids.
Hazardous decomposition products  May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Possibility of hazardous reactions  Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, dipotassium salt</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>Not available</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</td>
<td>1210 mg/m3 mouse</td>
</tr>
<tr>
<td>Isobutane</td>
<td>658 mg/l/4h rat</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbonic acid, dipotassium salt</td>
<td>1870 mg/kg rat; 2570 mg/m3 mouse</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>2000 mg/kg guinea pig; 3384 mg/kg rat; 2200 mg/kg rabbit</td>
</tr>
<tr>
<td>Ethanol, 2-amino-</td>
<td>1720 mg/kg rat; 700 mg/kg mouse</td>
</tr>
<tr>
<td>Isobutane</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Effects of acute exposure

- **Eye**: Irritating to eyes.
- **Skin**: None expected during normal conditions of use.
- **Inhalation**: None expected during normal conditions of use. However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- **Ingestion**: Health injuries are not known or expected under normal use.
- **Sensitization**: The finished product is not expected to have chronic health effects.
- **Chronic effects**: The finished product is not expected to have chronic health effects.
- **Carcinogenicity**: The finished product is not expected to have chronic health effects.
The finished product is not expected to have chronic health effects.

The finished product is not expected to have chronic health effects.

The finished product is not expected to have chronic health effects.

Not available

### 12. Ecological Information

#### Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Algae Data**
- Ethanol, 2-(2-butoxyethoxy)-: 112-34-5
  - EC50 Desmodesmus subspicatus: >100 mg/L
- Ethanol, 2-amino-: 141-43-5
  - EC50 Desmodesmus subspicatus: 15 mg/L

**Ecotoxicity - Freshwater Fish Species Data**
- Ethanol, 2-(2-butoxyethoxy)-: 112-34-5
  - LC50 Lepomis macrochirus: 1300 mg/L [static]
- Ethanol, 2-amino-: 141-43-5
  - LC50 Pimephales promelas: 227 mg/L [flow-through]; LC50 Brachydanio rerio: 3694 mg/L [static]; LC50 Lepomis macrochirus: 300-1000 mg/L [static]; LC50 Oncorhynchus mykiss: 114-196 mg/L [static]; LC50 Oncorhynchus mykiss: >200 mg/L [flow-through]

**Ecotoxicity - Water Flea Data**
- Ethanol, 2-(2-butoxyethoxy)-: 112-34-5
  - EC50 Daphnia magna: 2850 mg/L; EC50 Daphnia magna: >100 mg/L
- Ethanol, 2-amino-: 141-43-5
  - EC50 Daphnia magna: 65 mg/L

**Environmental effects** Not available
**Aquatic toxicity** Not available
**Persistence / degradability** Not available
**Bioaccumulation / accumulation** Not available
**Partition coefficient** Not available
**Mobility in environmental media** Not available
**Chemical fate information** Not available

### 13. Disposal Considerations

**Waste codes** Not available
**Disposal instructions** Dispose in accordance with all applicable regulations.
**Waste from residues / unused products** Not available
**Contaminated packaging** Not available

### 14. Transport Information

U.S. Department of Transportation (DOT)

UN 1950, Aerosols, Class 2.1, Re-classed as Consumer Commodity ORM-D
# Transportation of Dangerous Goods (TDG - Canada)

UN 1950, Aerosols, Class 2.1, Re-classed as Consumer Commodity/LTD. QTY

### IMDG (Marine Transport)

UN1950, Aerosols, Class 2.1, Limited Quantity

### IATA/ICAO (Air)

UN1950, Aerosols, flammable, Limited Quantity

## 15. Regulatory Information

<table>
<thead>
<tr>
<th>US Federal regulations</th>
<th>This product is a &quot;Hazardous Chemical&quot; as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Registration:</td>
<td>Not registered</td>
</tr>
</tbody>
</table>

**Occupational Safety and Health Administration (OSHA)**

- 29 CFR 1910.1200 hazardous chemical
- Yes

**CERCLA (Superfund) reportable quantity**

- None
Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - Yes
- Reactivity Hazard - No

Section 302 extremely hazardous substance - No
Section 311 hazardous chemical - Yes

Clean Air Act (CAA) - Not available
Clean Water Act (CWA) - Not available

State regulations
- This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
- Ethanol, 2-amino-141-43-5 Present

U.S. - Illinois - Toxic Air Contaminants
- Ethanol, 2-amino-141-43-5 Present

U.S. - Massachusetts - Right To Know List
- Ethanol, 2-amino-141-43-5 Present
- Isobutane 75-28-5 Present

U.S. - Minnesota - Hazardous Substance List
- Ethanol, 2-amino-141-43-5 Present

U.S. - New Jersey - Right to Know Hazardous Substance List
- Ethanol, 2-amino-141-43-5 sn 0835
- Isobutane 75-28-5 sn 1040

U.S. - Pennsylvania - RTK (Right to Know) List
- Ethanol, 2-amino-141-43-5 Present
- Isobutane 75-28-5 Present

U.S. - Rhode Island - Hazardous Substance List
- Ethanol, 2-amino-141-43-5 Toxic; Flammable

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. Other Information

Disclaimer
- This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information
- 62338-00178-4 - EASY-OFF® Fume Free Max Oven Cleaner Aerosol - 16 oz. - 363915

Issue date
- 11-May-2010

Effective date
- 15-May-2010

Prepared by
- Reckitt Benckiser Regulatory Department 800-333-3899

Other information
- For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.
This safety data sheet complies with the requirements of: 29CFR1910.1200

Issue Date 29-Dec-2014
Revision Date 29-Dec-2014

1. IDENTIFICATION

Product Identifier
Product Name Denture Cleanser Tablets (sodium perborate formulas)

Other means of identification
Synonyms Antibacterial Denture Cleanser Tablets (DC)
Bi-Layer Denture Cleanser Tablet (ML)
Overnight Denture Cleanser Tablets (OL)
Effervescent Cleanser Tablets (RAF)

Other Information Mixture of detergents, mild inorganic bleaching agents and auxiliary ingredients.

Recommended use of the chemical and restrictions on use
Recommended Use Consumer use.
Uses advised against No information available

Details of the supplier of the safety data sheet
Supplier Address Tower Laboratories Ltd
8 Industrial Park Road (PO Box 306)
Centerbrook CT 06409
USA
Manufacturer Address Tower Laboratories Ltd
8 Industrial Park Road (PO Box 306)
Centerbrook CT 06409
USA

Emergency telephone number
Company Phone Number 860-767-2127
Emergency Telephone Call CHEMTREC Day or Night:
Within USA and Canada: 1-800 424-9300
Outside USA and Canada: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulated Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Reversible eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 1B</td>
</tr>
</tbody>
</table>

Label elements

Emergency Overview

Danger

Hazard statements
Harmful if swallowed
Harmful if inhaled
Causes serious eye irritation
May damage fertility or the unborn child
This is a low hazard product. However, chewing or swallowing the tablets or gargling with the solution may cause serious health effects. DO NOT take internally. Do not breathe dust. Keep out of eyes and avoid extended contact with skin to minimize chance of irritation.

**Appearance**  Loose powder or tablet  
**Physical state**  Solid  
**Odor**  Peppermint

**Precautionary Statements - Prevention**
Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**
IF exposed or concerned: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
Not applicable

**Other Information**
- Harmful to aquatic life with long lasting effects  
- When added to water, the product produces carbon dioxide bubbles for agitation, and a mild detergent and peroxide solution for cleaning.  
- Read entire Safety Data Sheet for more information regarding this product.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**
This product is a mixture.

**Synonyms**
Antibacterial Denture Cleanser Tablets (DC)  
Bi-Layer Denture Cleanser Tablet (ML)  
Overnight Denture Cleanser Tablets (OL)  
Effervescent Cleanser Tablets (RAF)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxone</td>
<td>70693-62-8</td>
<td>10-40%</td>
</tr>
<tr>
<td>Sodium Perborate Monohydrate</td>
<td>10332-33-9</td>
<td>10-30%</td>
</tr>
<tr>
<td>Citric acid</td>
<td>77-92-9</td>
<td>0-20%</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>5-15%</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>0-25%</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>7758-29-4</td>
<td>1-3%</td>
</tr>
<tr>
<td>Sodium Lauryl Sulfoacetate</td>
<td>1847-58-1</td>
<td>0.1-1.0%</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Description of first aid measures

General advice
Under conditions of normal use, no hazards are anticipated which require special first aid measures. Get medical attention if any symptoms develop or persist. Always have plenty of water available for first aid.

Eye contact
Not an expected route of exposure. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.

Skin contact
Not an expected route of exposure. Get medical attention if irritation develops and persists.

Inhalation
Not an expected route of exposure. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If continued difficulty with breathing is experienced, get medical attention immediately.

Ingestion
Do not ingest tablets or place them in mouth. Do not ingest or gargle solutions containing denture cleanser. Read and follow all usage directions. IF SWALLOWED. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, call a poison control center or physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
May cause skin irritation. May cause eye irritation. Ingestion may cause damage to the esophagus, abdominal pain, internal bleeding, breathing problems, seizures, bleeding of tissues, blood in the urine and vomiting. Chronic exposure may cause allergic reactions. Allergic reactions can occur with both proper and improper use of these cleaners. Symptoms of allergic reaction may include irritation, tissue damage, rash, hives, gum tenderness, breathing problems, low blood pressure.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use copious amounts of water to extinguish fire.

Unsuitable extinguishing media
None.

Specific hazards arising from the chemical
Dry product will react with water and effervesce. Wet product in tight containers may rupture. No significant hazard expected.

Explosion data
Sensitivity to Mechanical Impact
None.

Sensitivity to Static Discharge
None.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Physical form requires no specific personal protection when cleaning up spills. Wear dust mask and gloves as appropriate.

Other Information
Sweep up or vacuum. Collect material for disposal.

For emergency responders
Use personal protective equipment as required.

Environmental precautions
Collect spillage. Not readily biodegradable. Product is not considered to be an environmental hazard.

Methods and material for containment and cleaning up

Methods for containment
Sweep up or vacuum. Collect material for disposal.

Methods for cleaning up
Avoid creating dust. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep away from heat. Protect from moisture.

Incompatible materials
Water causes production of gaseous carbon dioxide and a slowly reactive hydrogen peroxide.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

Control parameters

Exposure Guidelines
OSHA PELs for Particulates Not Otherwise Regulated (PNOR):
15 mg/m³ TWA (total dust)
5 mg/m³ TWA (respirable fraction)

Appropriate engineering controls

Engineering Controls
Ventilation systems. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/face protection
Wear safety glasses with side shields (or goggles).
Skin and body protection
Wear rubber gloves during industrial processing. Extended contact may cause skin irritation.

Respiratory protection
If exposure limits are exceeded or irritation is experienced, a NIOSH/MSHA approved respiratory protection should be worn.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid Powder</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Loose or compressed powder</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Blue, blue/white, green/white or blue/green</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Peppermint</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH (1-3% aqueous solution)</td>
<td>6 - 9</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td>Non Flammable</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Contains oxidizing compounds but in a form which reduces any hazard arising from their presence</td>
<td></td>
</tr>
</tbody>
</table>

Other Information

Softening point                                | Not applicable                             |
Molecular weight                               | No information available                   |
VOC Content (%)                                | Not applicable                             |
Density                                       | Not applicable                             |
Bulk density                                   | 0.9 g/cc                                   |

10. STABILITY AND REACTIVITY

Reactivity
Not applicable

Chemical stability
Stable under normal conditions of handling, use and transportation.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous polymerization
Hazardous polymerization does not occur.
**Conditions to avoid**
Heat. Water.

**Incompatible materials**
Water causes production of gaseous carbon dioxide and a slowly reactive hydrogen peroxide.

**Hazardous Decomposition Products**
Carbon dioxide (CO₂). Hydrogen peroxide.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information**
The product has not been tested. Toxicological testing has not been conducted for this product overall. Available toxicological data for individual ingredients are summarized below.

**Inhalation**
Harmful by inhalation.

**Eye contact**
Causes serious eye irritation.

**Skin contact**
Prolonged contact may cause redness and irritation.

**Ingestion**
Harmful if swallowed.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxone 70699-62-8</td>
<td>= 1204 mg/kg (Rat)</td>
<td>&gt; 11000 mg/kg (Rabbit)</td>
<td>&gt; 14 mg/L (Rat) 1 h</td>
</tr>
<tr>
<td>Sodium Perborate Monohydrate 10332-33-9</td>
<td>770 - 2100 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Citric acid 77-92-9</td>
<td>= 3000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium carbonate 497-19-8</td>
<td>= 4090 mg/kg (Rat)</td>
<td>-</td>
<td>= 2300 mg/m³ (Rat) 2 h</td>
</tr>
<tr>
<td>Sodium sulfate 7757-82-6</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate 7785-29-4</td>
<td>= 3100 mg/kg (Rat)</td>
<td>&gt; 7940 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Sodium Lauryl Sulfoacetate 1847-58-1</td>
<td>= 700 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Information on toxicological effects

**Symptoms**
No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation**
Not classified.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Irritation**
Irritating to eyes and skin.

**Corrosivity**
Not classified.

**Sensitization**
No sensitization responses were observed.

**Germ cell mutagenicity**
Not classified.

**Carcinogenicity**
This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Reproductive toxicity**
Product is or contains a chemical which is a known or suspected reproductive hazard.

**Developmental Toxicity**
May damage fertility or the unborn child.

**Teratogenicity**
May cause harm to the unborn child.

**STOT - single exposure**
Not classified.

**STOT - repeated exposure**
Not classified.

**Chronic toxicity**
No known effect.
12. ECOLOGICAL INFORMATION

Ecotoxicity

The following table lists information related to aquatic toxicity:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxone 70693-62-8</td>
<td>-</td>
<td>32: 96 h Brachydanio rerio mg/L LC50 semi-static</td>
<td>5.3: 24 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Citric acid 77-92-9</td>
<td>-</td>
<td>1516: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td>120: 72 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Sodium carbonate 497-19-8</td>
<td>242: 120 h Nitzschia mg/L EC50</td>
<td>300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static</td>
<td>265: 48 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Sodium sulfate 7757-82-6</td>
<td>-</td>
<td>13500 - 14500: 96 h Pimephales promelas mg/L LC50 6800: 96 h Pimephales promelas mg/L LC50 static 3040 - 4380: 96 h Lepomis macrochirus mg/L LC50 static 13500: 96 h Lepomis macrochirus mg/L LC50</td>
<td>2564: 48 h Daphnia magna mg/L EC50 630: 96 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate 7758-29-4</td>
<td>-</td>
<td>1650: 48 h Leuciscus idus mg/L LC50</td>
<td>-</td>
</tr>
</tbody>
</table>

Persistence and degradability
Not readily biodegradable.

Bioaccumulation
Not readily biodegradable.

Mobility
Soluble in water.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Citric acid 77-92-9</td>
<td>-1.72</td>
</tr>
</tbody>
</table>

Other adverse effects
No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/containers in accordance with local regulations. This material, as supplied, is not a hazardous waste according to state and federal regulations (40 CFR 261).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate 497-19-8</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION
Note: This material is not subject to regulation as a hazardous material for shipping

DOT Not regulated.
TDG Not regulated.
MEX Not regulated.
ICAO (air) Not regulated.
IATA Not regulated.
IMDG Not regulated.
RID Not regulated.
ADR Not regulated. European requirement only, Not applicable in the United States.
ADN Not regulated. European requirement only, Not applicable in the United States.

15. REGULATORY INFORMATION

International Inventories
TSCA All of the components of this product are listed on the US TSCA (Toxic Substances Control Act) Inventory or are exempt.
DSL/NDSL All of the components of this product are listed on the DSL.

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories
- Acute health hazard No
- Chronic Health Hazard No
- Fire hazard No
- Sudden release of pressure hazard No
- Reactive Hazard No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td>-</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7757-82-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>-</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>7758-29-4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. EPA Label Information
EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA
Health hazards 0 Flammability 0 Instability 0 Physical and Chemical Properties -

HMIS
Chronic Hazard Star Legend
Health hazards 1 Flammability 0 Physical hazards 0 Personal protection E

Prepared By
Regulatory compliance group

Issue Date 17-Dec-2014
Revision Date 17-Dec-2014
Revision Note
No information available

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet
# MATERIAL SAFETY DATA SHEET

**Identity:** Eyesaline® Solution - Product #s 32-000400, 32-000401, 32-000502, 32-001050

## Section I

**Manufacturer:** Sperian Eye & Face Protection, Inc. (a Honeywell Company)  
**Address:** 825 East Highway 151  
Plateville, WI 53818 USA  
**Emergency Telephone:** 1-800-430-5490  
**Information Telephone:** 1-800-543-4842  
**Date Prepared:** 06/13/12

## Section II - Hazardous Ingredients/Identify Information

**Hazardous Components**  
**Specific Chemical Identity:** OSHA PEL ACGIH TLV Other limits recommended % (optional)

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other limits recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZALKONIUM CHLORIDE CAS #8001-54-5</td>
<td>NONE</td>
<td>NONE</td>
<td>N/A</td>
<td>&lt;0.1%</td>
</tr>
</tbody>
</table>

## Section III - Physical/Chemical Characteristics

**Boiling Point:** 200°F (93.3°C)  
**Specific Gravity (H2O)=1:** NOT DETERMINED  
**Vapor Pressure (mm Hg.):** 760  
**Melting Point:** N/A  
**Vapor Pressure (Air = 1):** NOT DETERMINED.  
**Evaporation Rate (Butyl Acetate = 1):** NOT DETERMINED  
**Solubility in Water:** 100%

**Appearance and Odor:** COLORLESS LIQUID WITH NO DISCERNABLE ODOR.

## Section IV - Fire and Explosion Hazard Data

**Flash Point (Method Used):** N/A  
**Flammable Limits:** LEL: N/A UEL: N/A

**Extinguishing Media:** THIS IS A NONFLAMMABLE AQUEOUS SOLUTION.

**Special Fire Fighting Procedures:** N/A

**Unusual Fire and Explosion Hazards:** N/A

## Section V - Reactivity Data

**Stability:** Unstable: NO Stable: YES  
**Conditions to Avoid:** THIS PRODUCT IS STABLE AND CONSIDERED NON-REACTIVE UNDER NORMAL CONDITIONS OF STORAGE AND USAGE.

**Incompatibility (Materials to Avoid):** NONE KNOWN

**Hazardous Decomposition or Byproducts:** NONE

**Hazardous Polymerization:** May Occur: NO Will Not Occur: YES  
**Conditions to Avoid:** NONE

## Section VI - Health Hazard Data

**Route(s) of Entry:** Inhalation: NO Skin: NO Ingestion: YES

**Health Hazards (Acute and Chronic):** INGESTION OF VOLUMES IN EXCESS OF 20 LITERS MAY CAUSE GASTRIC IRRITATION.

**Carcinogenicity:** NTP: NO IARC Monographs: NO OSHA Regulated: NO

**Signs and Symptoms of Exposure:** N/A

**Medical Conditions Generally Aggravated by Exposure:** N/A

**Emergency First Aid Procedures:** NOTES TO PHYSICIAN: IN THE UNLIKELY EVENT OF RAPID INGESTION OF LARGE VOLUMES OF THE SOLUTION, INDUCE VOMITING AND OBSERVE THE PATIENT FOR GASTRIC IRRITATION.

## Section VII - Precautions for Safe Handling and Use

**Steps to Be Taken in Case Material is Released or Spilled:** FLUSH AREA WITH WATER. THE SOLUTION IS NOT RCRA HAZARDOUS WASTE.

**Waste Disposal Method:** N/A

**Precautions to Be Taken in Handling and Storing:** DO NOT FREEZE OR EXPOSE TO TEMPERATURES IN EXCESS OF 110°F (43°C) FOR EXTENDED PERIODS.

**Other Precautions:** N/A

## Section VIII - Control Measures

**Respiratory Protection:** N/A

**Ventilation Local Exhaust:** N/A  
**Mechanical:** N/A  
**Special:** N/A  
**Other:** N/A

**Protective Gloves:** N/A  
**Eye Protection:** N/A

**Other Protective Clothing:** N/A

**Work Hygienic Practices:** N/A

---

Part No. 32-003731 Rev I
HUGGIES® Baby Wipes are imported by the Kimberly-Clark Corporation and are manufactured in the United States. The government controlling body “Occupational Safety and Health Administration” does not require a Material Safety Data Sheet as this product does not result in exposure to hazardous chemicals.

Given this, a Material Safety Data Sheet is not applicable but the following safety information about the components in this product may assist you:

* All ingredients have been tested exclusively for safety. The wetting solution is at least 97% water and is non-toxic should a baby put the wipe in their mouth.

*The baby wipes are made of wood pulp (cellulose fibres) and polypropylene - both have been in use for many years.

*Our baby wipes contain mild cleansers (not soap) and are perfectly safe for wiping hands and faces. Although the product contains some synthetic cleansing agents, is still very gentle and shouldn’t cause problems even with people who are extremely sensitive. This solution contains no isopropyl alcohol. If still concerned, try a patch test, using the wipe in a small area of the skin first, to check for sensitivity.

*Like many other liquid products, our baby wipes have preservatives added to protect against bacterial growth however, they are not sterile. They have not been tested to be anti-bacterial and should not be used as such.

*Our baby wipes contain Vitamin E and Aloe Vera. Vitamin E is a natural skin conditioner that helps keep skin naturally healthy. Vitamin E is found in a number of popular baby care and skin care products. Aloe Vera comes from the Aloe Vera plant and is a natural botanical ingredient. It is gentle and soothing to the skin. No synthetic Aloe Vera is used in any wipes products.
*Unopened wipes have a two year shelf life. If the wipes have been opened and properly closed, they will last approximately one year. However, the first few (8-9 wipes) might be dry.

If you have any further queries, please do not hesitate to contact us on our toll free number of 1800 028 334.

Regards,

KCA Consumer Advisory
Kimberly-Clark Australia Pty Limited
52 Alfred Street
Milsons Point NSW 2061
PRODUCT TECHNICAL BULLETIN

PRODUCT: Huggies® Baby Wipes

STATEMENT OF HAZARDOUS NATURE:

This Product Technical Bulletin (PTB) is not a Material Safety Data Sheet. Applicable Australian Standards do not require an MSDS for this product. This PTB does, however, contain detailed technical information for this Kimberly-Clark Australia product. This product, when used under normal conditions as intended, and in accordance with Kimberly-Clark Australia’s directions for use, should not present a health or safety hazard; however, use or processing of the product otherwise than in accordance with this product’s directions for use may affect the performance of the product and may present potential health and safety hazards.

COMPANY DETAILS:

Company Name: Kimberly-Clark Australia Pty Ltd, ACN 000 032 333
Address: 52 Alfred Street, MILSONS POINT NSW 2061

PRODUCT IDENTIFICATION:

Product Name: Huggies® Baby Wipes
Manufacturer’s Product Description:
Unscented
Scented: Shea Butter
Scented: Cucumber and Aloe

Synonyms: Nil
UN No: Nil D.G Class: Nil CAS No: See Ingredients
Hazchem: Nil Sub. Risk: Nil G.T. EPG: Nil
Spec.EPG: Nil Pack. Grp: Nil Poisons: Nil

Use: Disposable cleansing wipe
Physical Description/Properties:

Appearance: Rectangular disposable cloth-like wipe comprised of cellulose pulp and interwoven with polypropylene. The wipe is saturated with a 95% water and 5% cleanser solution.
Properties relate to the polypropylene component of the wipe in a dried state, not as supplied to the consumer.

Auto Ignition Point: >390ºC approx. [As supplied to the consumer: Not Applicable]
Melting Point (deg C): 164ºC - 175ºC
Decomposition Temp: 300ºC approx.
Specific gravity: 0.90@15ºC
Closed Flash Point (deg C): 316 cp.m (350ºC for base resin)
Surface Resistivity: <10¹⁷ ohms/sq.in.
Charge Decay Time: <0.5 sec
Solubility in water (g/L): Insoluble
Reactivity: Stable, May react with strong oxidising agents.
Ingredients:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Proportion (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt;70%</td>
</tr>
<tr>
<td>Polypropylene resin</td>
<td>9003-07-0</td>
<td>&gt;5%</td>
</tr>
<tr>
<td>Cellulose Pulp</td>
<td>9004-34-6</td>
<td>&gt;15%</td>
</tr>
<tr>
<td>Cleanser(non-hazardous)</td>
<td>Proprietary</td>
<td>&gt;2%</td>
</tr>
</tbody>
</table>

**HEALTH HAZARD INFORMATION**

**Acute Effects:**

Swallowed: Main concern is potential for a physical choking hazard. Some degree of discomfort may be experienced due to unpleasant detergent taste.

Eye: May cause mild irritation. Non-hazardous ingredients.

Skin: This product is intended for use on the skin. Non-irritant

Inhaled: Not seen as a likely cause of exposure. Fragrance is a pleasant, non-hazardous material.

**First Aid:**

Swallowed: Clear airway if obstructed. Rinse mouth thoroughly with water. Seek medical attention.

Eye: Flush the contaminated eye/s with copious quantity of water. Seek medical attention if irritation persists.

Skin: Intended for skin use. No adverse effects expected. Wash with water and discontinue use if irritation occurs.

Inhaled: Remove wipes from breathing zone, no further action should be required.

Advice to Doctor: This product is not classified as hazardous according to known Australian and International Product Safety Guidelines. Treat symptomatically.

**PRECAUTIONS FOR USE**

Exposure Standards: This product is non-hazardous and not included on any known Australian or International Standards for Dangerous Goods.

Engineering Controls: Disposal of waste to ordinary landfill, as approved by authorities.

Personal Protection: Product is intended for skin contact, no known hazards exist.

Flammability: If product is in a completely dry state (not as supplied) wipes may be able to support combustion.
## SAFE HANDLING INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage and Transport</td>
<td>Not classified as Dangerous Goods according to 7th ADG code. Store away from sources of heat and ignition sources.</td>
</tr>
<tr>
<td>Spills and Disposal</td>
<td>Prevent fabric or fibre entering storm water drains.</td>
</tr>
<tr>
<td>Disposal</td>
<td>Disposal of waste to ordinary landfill.</td>
</tr>
<tr>
<td>Fire/Explosion Hazard</td>
<td>As supplied, very low risk of fire. Fire fighters should wear personal protection and self-contained breathing apparatus in any fire situation. Molten product (plastic) is capable of causing severe burns.</td>
</tr>
<tr>
<td>Extinguishing Media</td>
<td>Water jets or fog, foam, dry chemical of CO₂. Prevent firefighting water entering storm water drain or waterway.</td>
</tr>
<tr>
<td>Other Information</td>
<td>Not fully biodegradable. Do not allow into drains or waterways.</td>
</tr>
</tbody>
</table>

## CONTACT POINTS

<table>
<thead>
<tr>
<th>Contact Point</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kimberly-Clark Australia</td>
<td></td>
</tr>
<tr>
<td>Customer Care line (Toll Free)</td>
<td>1800 747 994</td>
</tr>
<tr>
<td>After Hours (emergency)</td>
<td>0428 976 450</td>
</tr>
<tr>
<td><strong>Australia Poisons Information Centre</strong></td>
<td>131126</td>
</tr>
<tr>
<td>24-hour service – Police – Fire Brigade</td>
<td>000</td>
</tr>
</tbody>
</table>
## Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Ibuprofen</th>
</tr>
</thead>
</table>
| Manufacturer           | SPECTRUM LABORATORY PRODUCTS INC.  
                        | 14422 S. SAN PEDRO STREET  
                        | GARDENA, CA 90248 |
| Commercial Name(s)     | Adran; Advil; Anflagen; Artril 300; Bluton; Brufanic; Brufen;  
                        | Buburone; Butylenin; Epobron; Ibufen; Ibuprocin; Lamidon;  
                        | Liptan; Motrin; Mynosedin; Napacetin; Nobfelon; Nobfen;  
                        | Nobgen; Nuprin; Nurofen; Paduden; Proflex; Rebugen;  
                        | Roidenin; Rufin; Unipron |
| Synonym                | 2-(4-isobutylphenyl)propionic acid;  
                        | 2-(p-Isobutylphenyl)propionic acid;  
                        | 4-Isobutylhydratropic acid;  
                        | alpha-(4-Isobutylphenyl)propionic acid;  
                        | alpha-p-Isobutylphenylpropionic acid;  
                        | Benzeneacetic acid, alpha-methyl-4-(2-methylpropyl)-;  
                        | p-Isobutylhydratropic acid |
| Chemical Name          | Hydratropic acid, p-isobutyl- |
| Chemical Family        | Not available. |
| Chemical Formula       | C13-H18-O2 |
| Supplier               | SPECTRUM LABORATORY PRODUCTS INC.  
                        | 14422 S. SAN PEDRO STREET  
                        | GARDENA, CA 90248 |

### Toxicological Data on Ingredients

**Ibuprofen:**  
**ORAL (LD50):**  
Acute: 636 mg/kg [Rat]. 740 mg/kg [Mouse]. 495 mg/kg [Guinea pig].
Section 3. Hazards Identification

Potential Acute Health Effects
Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects
CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

Eye Contact
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.

Skin Contact
Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire and Explosion Data

Flammability of the Product
May be combustible at high temperature.

Auto-Ignition Temperature
Not available.

Flash Points
Not available.

Flammable Limits
Not available.

Products of Combustion
These products are carbon oxides (CO, CO2).

Fire Hazards in Presence of Various Substances
Slightly flammable to flammable in presence of heat.

Explosion Hazards in Presence of Various Substances
Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards
Material in powder form, capable of creating a dust explosion. As with most organic solids, fire is possible at elevated temperatures

Special Remarks on Explosion Hazards
Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Section 6. Accidental Release Measures

**Small Spill**
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill**
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

**Precautions**
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

**Storage**
Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

**Engineering Controls**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**
Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill**
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits**
Not available.

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical state and appearance</th>
<th>Odor</th>
<th>Taste</th>
<th>Color</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Molecular Weight</th>
<th>pH (1% soln/water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>206.28 g/mole</td>
<td>Not available.</td>
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<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>75°C (167°F) - 77°C</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Not available.</td>
<td>The product is more soluble in oil; log(oil/water) = 4</td>
<td>Not available.</td>
<td>Not available.</td>
<td>Very slightly soluble in cold water.</td>
</tr>
</tbody>
</table>
Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>The product is stable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Instability Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Conditions of Instability</td>
<td>Excess heat, dust generation.</td>
</tr>
<tr>
<td>Incompatibility with various substances</td>
<td>Not available.</td>
</tr>
<tr>
<td>Corrosivity</td>
<td>Non-corrosive in presence of glass.</td>
</tr>
</tbody>
</table>

Special Remarks on Reactivity
Not available.

Special Remarks on Corrosivity
Not available.

Polymerization
Will not occur.

Section 11. Toxicological Information

Routes of Entry
Inhalation. Ingestion.

Toxicity to Animals
Acute oral toxicity (LD50): 495 mg/kg [Guinea pig].

Chronic Effects on Humans
Not available.

Other Toxic Effects on Humans
Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals
LD50 [Rabbit] - Route: Oral; Dose: 1400 mg/kg
May cause adverse reproductive effects.

Special Remarks on Chronic Effects on Humans
Acute Potential Health Effects:
Skin: May cause skin irritation.
Eyes: May cause eye irritation. May cause transient conjunctivitis.
Inhalation: May cause respiratory tract irritation.
Ingestion: May be harmful if swallowed. May cause gastrointestinal distress, epigastric pain, nausea, vomiting, gastrointestinal bleeding, body temperature increase, anaphylactoid reaction (dermatitis, hives, itching, rash, swelling), metabolic acidosis and potassium imbalance (hypokalemia or hyperkalemia), hypophosphatemia, hyponatremia. May affect behavior/central nervous system (headache, drowsiness, lethargy, fatigue, malaise, anxiety, mental depression, somnolence, analgesia, seizures, coma), kidneys (renal failure, acute tubular necrosis), liver (cholestatic jaundice, blood (thrombocytopenia, changes in platelet count), cardiovascular system (blood flow, hypotension, bradycardia, tachycardia, atrial fibrillation), immune system (decrease in cellular immune response), respiration (dyspnea). Double vision, involuntary movement of the eyes, blurred vision, ringing in the ears and transient deafness may also occur following overdose.

Chronic Potential Health Effects:
Ingestion: Prolonged or repeated ingestion may cause weight loss, epigastric pain, gastrointestinal distress, ulceration or bleeding, hyperglycemia, anaphylactoid reaction (dermatitis, hives, itching, rash, swelling). It may also affect the blood, brain/spinal cord (meningeal and cephalic fluid changes - meningitis), behavior/central nervous system (somnolence), liver, urinary system/kidneys, blood (normocytic anemia), thymus gland.

Medical Conditions Aggravated by Exposure: hypersensitivity to material; active alcoholism; advanced kidney disease; hemophilia or other bleeding disorders; inflammatory or ulcerative disease of the gastrointestinal tract; stomatis; sensitivity to aspirin or any other nonsteroidal anti-inflammatory agents

Continued on Next Page
<table>
<thead>
<tr>
<th>Section 12. Ecological Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecotoxicity</td>
</tr>
<tr>
<td>BOD5 and COD</td>
</tr>
<tr>
<td>Products of Biodegradation</td>
</tr>
<tr>
<td>Toxicity of the Products of Biodegradation</td>
</tr>
<tr>
<td>Special Remarks on the Products of Biodegradation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 13. Disposal Considerations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste Disposal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 14. Transport Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Classification</td>
</tr>
<tr>
<td>Identification</td>
</tr>
<tr>
<td>Special Provisions for Transport</td>
</tr>
<tr>
<td>DOT (Pictograms)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 15. Other Regulatory Information and Pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal and State Regulations</td>
</tr>
<tr>
<td>California Proposition 65 Warnings</td>
</tr>
<tr>
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<tr>
<td>Other Classifications</td>
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<tr>
<td></td>
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<tr>
<td>HMIS (U.S.A.)</td>
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<td></td>
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</tbody>
</table>

Continued on Next Page
Protective Equipment

- Gloves.
- Lab coat.
- Dust respirator. Be sure to use an approved/certified respirator or equivalent.
- Safety glasses.

**Section 16. Other Information**

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>I3002</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>Major Uses: Medication</td>
</tr>
</tbody>
</table>


CALL (310) 516-8000

**Notice to Reader**

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.
**Section 1. Product and Company Identification**

**Product Name**: LYSOL® BRAND DISINFECTANT ANTIBACTERIAL KITCHEN CLEANER, CITRUS SCENT (TRIGGER)

**Product Description**: Antibacterial kitchen cleaner that kills 99.9% of the bacteria in seconds. Cuts grease & grime with a streak-free shine in a trigger spray.

**Manufacturer**: Reckitt Benckiser North America, Inc.
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, N.J. 07054-0225

**Product Identifier**: EPA Registration No. 777-66

**Item Number**: 373200

**Formula Number**: 1107-159A (F/F 373200) Trigger (Citrus scent).

** UPC Number**: 19200-00888 (22 oz), 19200-78913 (32 oz.), trigger spray containers. 19200-80444 (144 oz.), Refill.

**MSDS#**: Not available.

**Validation Date**: 6/19/2009

**Print Date**: 6/19/2009

**In case of Emergency**: Telephone: 800-228-4722

**Chemtrec**: 1-800-424-9300 (U.S. & Canada)

Outside the U.S & Canada (North America), call:
703-527-3887

**Section 2. Composition and Information on Ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>Exposure Limits : TLV/PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) DIPROPYLENE GLYCOL MONOBUTYL ETHER</td>
<td>29911-28-2</td>
<td>0 - 1.0</td>
<td>Not available.</td>
</tr>
<tr>
<td>2) LAURYL DIMETHYLAMINE OXIDE</td>
<td>1643-20-5</td>
<td>1.0 - 3.0</td>
<td>Not available.</td>
</tr>
<tr>
<td>3) ALKYL (C12-C18) DIMETHYL BENZYL AMMONIUM CHLORIDES</td>
<td>68391-01-5</td>
<td>0.08</td>
<td>Not available.</td>
</tr>
<tr>
<td>4) ALKYL (C12-C16) DIMETHYL BENZYL AMMONIUM CHLORIDE</td>
<td>68424-85-1</td>
<td>0.02</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

**Section 3. Hazards Identification**

**Emergency Overview**: CAUTION: May cause eye irritation. Avoid contact with eyes. KEEP OUT OF REACH OF CHILDREN.

**Section 4. First Aid Measures**

**Eye Contact**: In case of eye contact, immediately rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing for at least 15 minutes. If irritation persists, consult a physician.

**Skin Contact**: In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.

**Inhalation**: Remove to fresh air.

**Ingestion**: Rinse mouth with water. Contact a physician or poison control center if symptoms develop. NEVER give an unconscious person anything to ingest.

*Continued on Next Page*
## Section 5. Fire and Explosion Data

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Not flammable. See Section 14 for any Shipping Classifications.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>CLOSED CUP: Higher than 93.3°C (&gt;200°F). (Tagliabue.).</td>
</tr>
<tr>
<td>Explosive Limits in Air</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Combustion</td>
<td>Not available.</td>
</tr>
<tr>
<td>Fire and Explosion Hazards</td>
<td>None known.</td>
</tr>
<tr>
<td>Fire Fighting Media and Instructions</td>
<td>Use water spray, foam, dry chemical or carbon dioxide, as suitable, for the surrounding fire.</td>
</tr>
<tr>
<td>Special Fire Fighting Instructions</td>
<td>Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.</td>
</tr>
</tbody>
</table>

## Section 6. Accidental Release Measures

### Accidental Spill
- **Small spills**: Absorb with an inert material and place in an appropriate waste disposal.
- **Large spills**: Should be diked, contained and collected for later disposal according to local, state or federal regulations.

## Section 7. Handling and Storage

### Handling and Storage
- **CAUTION**: May cause eye irritation. Avoid contact with eyes.
- Store in original container in areas inaccessible to small children. KEEP OUT OF REACH OF CHILDREN.
- It is a violation of federal law to use this product in a manner inconsistent with its labeling.

## Section 8. Exposure Controls/Personal Protection

### Ventilation Requirements
- None required.

### Eye Protection
- Avoid eye contact. When handling in large quantities or responding to emergency situations, the use of appropriate eye protection is recommended. Emergency responders should wear full eye and face protection.

### Skin Protection
- None required. Wear impervious rubber gloves if prolonged skin contact or splashing is possible.

### Respiratory Protection
- None required.

### Other Protection
- None required.

### Work/Hygienic Practices
- Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

## Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Description</th>
<th>Clear sparkling thin liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Odor</strong></td>
<td>Citrus.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>11.3 [Basic.]</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Water-white.</td>
</tr>
<tr>
<td><strong>Boiling/Condensation Point</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>1.0 (Water = 1)</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

*Continued on Next Page*
### Section 10. Stability and Reactivity Data

#### Chemical Stability
Stable.

#### Conditions of Instability
Intense heat.

#### Incompatibility with Various Substances
None known.

#### Hazardous Decomposition Products
Oxides of nitrogen and/or carbon and other unidentified organic compounds may be formed upon thermal decomposition.

#### Hazardous Polymerization
Will not occur.

### Section 11. Toxicological Information

#### Exposure effects

**Eye Contact**
May cause eye irritation.

**Skin Contact**
Non-irritant.

**Inhalation**
Not toxic.

**Ingestion**
Not orally toxic.

**Carcinogenicity**
Not listed as carcinogenic by OSHA, NTP or IARC.

### Section 12. Ecological Information

#### Ecotoxicity
Not available.

### Section 13. Disposal Considerations

#### Waste Disposal
Small quantities of waste liquid: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large quantities of waste: Dispose of in accordance with local, state and federal regulations for non-hazardous materials. Rinse empty container thoroughly and discard in trash or rinse and recycle container.

### Section 14. Transport Information

#### DOT Classification
Not regulated by DOT (United States).

#### Proper Shipping Name
Not applicable.

#### DOT Identification Number
Not applicable.

#### Packing Group
Not applicable.

#### Maritime Transportation
Not applicable.

#### Hazardous Substances Reportable Quantity
Not applicable.

*Continued on Next Page*
Not applicable.

**TDG Classification**
Not regulated by TDG.

**ADR Classification**
Not applicable.

**IMDG Classification**
Not regulated by IMDG.

**IATA Classification**
Not regulated by IATA.

### Section 15. Regulatory Information

**Federal and State Regulations**
SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:
None

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:
None

**Other Classifications**
WHMIS (Canada) Not controlled under WHMIS (Canada).

### Section 16. Other Information

**HMIS (U.S.A.)**

- Health Hazard: 2
- Fire Hazard: 0
- Reactivity: 0
- Personal Protection: B

**National Fire Protection Association (U.S.A.)**

- Health: 2
- Reactivity: 0
- Specific Hazard: 0

**NFPA Aerosol Level**
Not applicable.

Reviewed by Regulatory on 6/19/2009.

Printed 6/19/2009.

**Notice to Reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
1. IDENTIFICATION

Product Identifier
Product Name Majestic Bleach 3%

Other means of identification
SDS # MAJ005

Recommended use of the chemical and restrictions on use
Recommended Use Bleach.

Details of the supplier of the safety data sheet
Supplier Address Champion Packaging & Distribution
1840 International pkwy
Woodridge, IL 60517

Emergency Telephone Number
Company Phone Number 630-972-0100
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear to yellow liquid
Physical State Liquid
Odor Pungent, irritating, that of household bleach

Classification

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Signal Word
Danger

Hazard Statements
Causes severe skin burns and eye damage

Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
Immediately call a poison center or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Very toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>1-10</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

### 4. FIRST-AID MEASURES

#### First Aid Measures

**General Advice**
Immediately call a poison center or doctor/physician.

**Eye Contact**
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Immediately call a poison center or doctor/physician.

**Skin Contact**
Immediately flush with soap and water.

**Inhalation**
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Ingestion**
Immediately call a poison center or doctor/physician. Rinse mouth. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects

**Symptoms**
Causes severe skin burns and eye damage. Respiratory tract irritant. Ingestion can cause corrosion of the mucous membranes.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media**
Not determined.
Specific Hazards Arising from the Chemical
Not considered to be a fire hazard. Not considered to be an explosion hazard.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

<table>
<thead>
<tr>
<th>Personal Precautions</th>
<th>Use personal protective equipment as required.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Precautions</td>
<td>See Section 12 for additional Ecological Information.</td>
</tr>
</tbody>
</table>

Methods and material for containment and cleaning up

<table>
<thead>
<tr>
<th>Methods for Containment</th>
<th>Prevent further leakage or spillage if safe to do so.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methods for Clean-Up</td>
<td>Move unprotected personnel upwind out of danger. Dilute with water and flush to local sewer system, if permitted. Solid waste must be disposed of in a permitted waste management facility. Ensure compliance with local, state and federal regulations.</td>
</tr>
</tbody>
</table>

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

<table>
<thead>
<tr>
<th>Storage Conditions</th>
<th>Store locked up. Store in a cool, dry, well-ventilated place. Protect container from physical damage. Store away from incompatible materials.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatible Materials</td>
<td>Reacts vigorously with Amine, Ammonium Acetate, Ammonium Oxalate, Acids and most organics.</td>
</tr>
</tbody>
</table>

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

<table>
<thead>
<tr>
<th>Engineering Controls</th>
<th>Local exhaust ventilation recommended. Eyewash stations. Showers.</th>
</tr>
</thead>
</table>

Individual protection measures, such as personal protective equipment

<table>
<thead>
<tr>
<th>Eye/Face Protection</th>
<th>Use chemical safety goggles impervious to product. Contact lenses should not be worn when working with this material.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin and Body Protection</td>
<td>Wear impervious protective clothing including boots, gloves, lab coat, apron, or coveralls to prevent skin contact.</td>
</tr>
<tr>
<td>Respiratory Protection</td>
<td>(NIOSH Approved) Recommended for all personnel working in or about an area of potential exposure.</td>
</tr>
</tbody>
</table>
General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks · Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear to yellow liquid</td>
<td>Odor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pungent, irritating, that of household bleach</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Clear to yellow</td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>12.75</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Decomposes prior to boiling</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Applicable</td>
<td></td>
</tr>
<tr>
<td>flammability (Solid, Gas)</td>
<td>Liquid-Not applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Approximately that of air</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.048</td>
<td>at 15.6°C (60°F)</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Completely soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under ordinary conditions of use and storage. Unstable at elevated temperatures.

Possibility of Hazardous Reactions
None under normal processing.

Hazards Polymerization
This substance does not polymerize.

Conditions to Avoid
Excessive heat and fire. Incompatible Materials.

Incompatible Materials
Reacts vigorously with Amine, Ammonium Acetate, Ammonium Oxalate, Acids and most organics.

Hazardous Decomposition Products
Decomposes under various mechanisms. May generate chlorine or oxygen which can be toxic and explosive, respectively.

11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure

Product Information

Eye Contact
- Causes severe eye damage.

Skin Contact
- Causes severe skin burns.

Inhalation
- Do not inhale.

Ingestion
- Do not ingest.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>= 8200 mg/kg (Rat)</td>
<td>&gt; 10000 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms
- Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity
- Group 3 IARC components are "not classifiable as human carcinogens".

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend
- IARC (International Agency for Research on Cancer)
  Group 3 IARC components are "not classifiable as human carcinogens"

Numerical measures of toxicity
- Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
- Very toxic to aquatic life with long lasting effects.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>0.095: 24 h Skeletonema costatum mg/L EC50</td>
<td>0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td>2.1: 96 h Daphnia magna mg/L EC50 0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability
- Not determined.
Bioaccumulation
Not determined.

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
Not regulated

IATA
Proper Shipping Name
The product as packaged is not approved for air transportation.

IMDG
UN/ID No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Sodium hypochlorite)
Hazard Class 9
Packing Group III
Marine Pollutant Sodium hypochlorite
Description For combination packagings (e.g. boxes) containing inner packagings (e.g. bottles) of 5 L (1.33 gal) or less, the product is shipped as a limited quantity per IMDG Code Chapter 3.4.

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend:
- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** - Japan Existing and New Chemical Substances
- **IECSC** - China Inventory of Existing Chemical Substances
- **KECL** - Korean Existing and Evaluated Chemical Substances
- **PICCS** - Philippines Inventory of Chemicals and Chemical Substances
- **AICS** - Australian Inventory of Chemical Substances

US Federal Regulations
CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td>100 lb</td>
<td>RQ 100 lb final RQ</td>
<td>RQ 45.4 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 313
Not determined

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td>100 lb</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

US State Regulations

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hypochlorite 7681-52-9</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Issue Date: 01-April-2015
Revision Date: 02-Dec-2014
Revision Note: New format

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet
1. IDENTIFICATION

Product Name: Oral-B Stages Toothpaste Princess

Product ID: 95926540_D_RET_NG

Product Type: Finished Product - Consumer (Retail) Use Only

Manufacturer:
The Procter & Gamble Company
Mason Business Center
8700 Mason-Montgomery Road
Mason, OH 45040-9462
+1 513 622-1000
Procter & Gamble Inc.
P.O. Box 355, Station A
Toronto, ON M5W 1C5
1-800-465-2945

E-mail Address: pgsds.im@pg.com

Emergency Telephone:
Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./ Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This is a personal care product that is safe for consumers and other users under normal and reasonably foreseeable use. This safety data sheet was developed based on regulations applicable to bulk substances in an industrial/occupational setting.

For Consumer - Ingredients in this product are not deemed to be hazardous when the product is used as intended.

For Manufacturing site personnel as follows:

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Eye Damage / Irritation: Category 2B

Signal Word: WARNING

Hazard Statements: Causes eye irritation

Hazard pictograms: None

Precautionary Statements - Prevention: Wash hands thoroughly after handling
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, sodium salt (1:3)</td>
<td>-</td>
<td>No</td>
<td>7601-54-9</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>-</td>
<td>No</td>
<td>151-21-3</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Sodium fluoride</td>
<td>-</td>
<td>No</td>
<td>7681-49-4</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>-</td>
<td>No</td>
<td>141-78-6</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Orange Flower Absolute</td>
<td>-</td>
<td>No</td>
<td>8008-57-9</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Methyl salicylate</td>
<td>-</td>
<td>No</td>
<td>119-36-8</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Limonene</td>
<td>-</td>
<td>No</td>
<td>5989-27-5</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Orange Flower Absolute</td>
<td>-</td>
<td>No</td>
<td>72968-50-4</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>Orange Flower Absolute</td>
<td>-</td>
<td>No</td>
<td>8030-28-2</td>
<td>0.1 - 1.0</td>
</tr>
</tbody>
</table>

Active pharmaceutical ingredient

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium fluoride</td>
<td>-</td>
<td>7681-49-4</td>
<td>0.243</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin contact

None under normal use.

Ingestion

Call a physician or poison control center immediately if overdosed.

Inhalation

None under normal use.

Most important symptoms/effects, acute and delayed

May cause eye irritation.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES
Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Special hazard

None known.

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific hazards arising from the chemical

None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

None under normal use conditions.

Advice for emergency responders

Use personal protective equipment as required.

Environmental precautions

**Household:**
Product is safe to dispose of in household garbage or down the drain.

**Non-household:**
Do not discharge product into natural waters without pre-treatment or adequate dilution

Methods and materials for containment and cleaning up

Methods for containment

No information available.

Methods for cleaning up

No information available.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products

None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Exposure guidelines are not relevant when product is used as intended in a household setting.

Exposure controls

This safety data sheet was developed based on regulations applicable to bulk substances in an industrial/occupational setting.

For **Consumers and Retail** personnel - follow product label directions and warnings when using and/or handling this product.

For **Distribution and Manufacturing** sites - follow the procedure as listed according to your Workplace Safety protocols.

Engineering Measures

No information available
Personal Protective Equipment

Eye Protection  
**Manufacturing Sites:**  Safety glasses with side-shields  
**Distribution, Workplace and Household Settings:**  No special protective equipment required

Hand Protection  
No special protective equipment required

Skin and Body Protection  
No special protective equipment required

Respiratory Protection  
No special protective equipment required

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>Semi-Solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Various color by product</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mint-like, Spice, fruity</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH value</td>
<td>6.0 - 9.0</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
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<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
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<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity of Product</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>Products comply with US state and federal regulations for VOC content in consumer products.</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity  
None under normal use conditions.

Stability  
Stable under normal conditions.

Hazardous polymerization  
Hazardous polymerization does not occur.

Hazardous Reactions  
None under normal processing.

Conditions to Avoid  
None under normal processing.

Materials to avoid  
None in particular.

Hazardous Decomposition Products  
None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information  
Information on likely routes of exposure
Inhalation  No known effect.
Skin contact No known effect.
Ingestion No known effect.
Eye contact Avoid contact with eyes. Irritating to eyes.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- **Acute toxicity**  No known effect.
- **Skin corrosion/irritation**  No known effect.
- **Serious eye damage/eye irritation**  Irritating to eyes.
- **Skin sensitization**  No known effect.
- **Respiratory sensitization**  No known effect.
- **Germ cell mutagenicity**  No known effect.
- **Neurological Effects**  No known effect.
- **Reproductive toxicity**  No known effect.
- **Developmental toxicity**  No known effect.
- **Teratogenicity**  No known effect.
- **STOT - single exposure**  No known effect.
- **STOT - repeated exposure**  No known effect.
- **Target Organ Effects**  No known effect.
- **Aspiration hazard**  No known effect.
- **Carcinogenicity**  No known effect.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

The product is not expected to be hazardous to the environment. The product is not expected to be hazardous to waste water treatment processes.

- **Persistence and degradability**  No information available.
- **Bioaccumulative potential**  No information available.
- **Mobility**  No information available.
- **Other adverse effects**  No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment**

**Waste from Residues / Unused Products**  Non-household: Product is safe to dispose of in household garbage or down the drain. The product is not expected to be hazardous to waste water treatment processes.

**Contaminated packaging**  Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Codes** (non-household setting)  331

**14. TRANSPORT INFORMATION**

**DOT**  Not regulated
**IMDG**  Not regulated
**IATA**  Not regulated
15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313
Not applicable for consumer use

CERCLA
Not applicable for consumer use

Food and Drug Administration (FDA)
The product described in this Safety Data Sheet is regulated under the Federal Food, Drug, and Cosmetics Act and is safe to use as per directions on container, box or accompanying literature (where applicable)

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
Not applicable for consumer use

Clean Water Act
Not applicable for consumer use

California Proposition 65
This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK)
Not applicable for consumer use

International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

Issuing Date: 02-Apr-2015
Revision Date: 29-Jun-2015

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS
Palmolive Dishwash Hand Liquid - Original

This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Section 1. Product and Company Identification

Product Name: Palmolive Dishwash Hand Liquid - Original
MSDS Number: 200000025378
CAS-No.: Not applicable - product is a mixture
General Use: Home care
A formulated dishwashing liquid

Company: Colgate-Palmolive Canada Inc.
Two Morneau Shepell Centre, 6th Fl.
895 Don Mills Road
Toronto, Ontario, M3C 1W3, Canada

Emergency telephone number: For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Medical Emergency (24HR): For medical emergencies involving this product call: (888) 489-3861

Section 2. Hazards Identification

Emergency Overview
Form: Liquid
Appearance: Blue green

Potential Health Effects
Eye contact: Causes eye irritation on direct contact.
Skin contact: May cause skin irritation upon prolonged contact.
Inhalation: Overexposure may cause respiratory tract irritation.
Ingestion: Harmful if swallowed.

Section 3. Composition/Information on Ingredients

Hazardous Components

OSHA-Regulated Components (present at a concentration of > or = 1%)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration *</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMMONIUM ALCOHOL ETHER SULFATE</td>
<td></td>
<td>5.00 - 10.00</td>
</tr>
</tbody>
</table>


This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

**SECTION 4. FIRST AID MEASURES**

**First aid procedures**

- **Eye contact**: Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

- **Skin contact**: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

- **Inhalation**: Remove victim to fresh air. Get medical attention, if symptoms persist.

- **Ingestion**: Drink 8 ounces of clear water. Get medical attention.

**SECTION 5. FIREFIGHTING MEASURES**

**Flammable properties**

- **Flash point**: > 200 °F (> 93 °C)

**Fire fighting**

- **Suitable extinguishing media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Protective equipment and precautions for firefighters**

*All concentrations are present by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Carcinogenicity:**

Listed Carcinogens: The following components, present at a concentration of > or = 0.1%, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), OSHA or ACGIH

- No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

| LAURAMIDOPROPYLDIMETHYLAMINE OXIDE | 61792-31-2 | 1.00 - 5.00 |
### PALMOLIVE DISHWASH HAND LIQUID - ORIGINAL

This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

<table>
<thead>
<tr>
<th>Version 0.0</th>
<th>Revision Date 00/00/0000</th>
<th>Print Date 10/03/2012</th>
</tr>
</thead>
</table>

**Special protective equipment for firefighters**

- Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<table>
<thead>
<tr>
<th>Personal precautions</th>
<th>Methods for containment / Methods for cleaning up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of water.</td>
</tr>
</tbody>
</table>

### SECTION 7. HANDLING AND STORAGE

**Storage**

- Requirements for storage areas and containers: Store at controlled room temperature at 20-25°C (68-77°F).

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

**Engineering Controls**

- In an industrial work environment, no special precautions or control measures are required.

**Personal protective equipment**

**Protective measures**

- In an industrial work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact may require protective gloves. For consumer use, no unusual precautions are necessary.

**General Hygiene Considerations**

- In an industrial work environment, avoid eye and prolonged skin contact.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Form</th>
<th>Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Blue green</td>
</tr>
</tbody>
</table>

| Flash point | > 200 °F (> 93 °C) |
This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

---

**SECTION 10. STABILITY AND REACTIVITY**

- **Materials to avoid**: Remarks: Strong oxidizing agents
- **Hazardous decomposition products**: Note: None known.
- **Hazardous reactions**: Hazardous polymerisation does not occur.

---

**SECTION 11. TOXICOLOGICAL INFORMATION**

This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the MSDS.

---

**SECTION 12. ECOLOGICAL INFORMATION**

No data available

---

**SECTION 13. DISPOSAL CONSIDERATIONS**

- **Further information**: Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in sewers, any body of water or on the ground.

---

**SECTION 14. TRANSPORT INFORMATION**

- **DOT**: Not regulated.
- **TDG**: Not regulated.
- **IATA**: Not regulated.
IMDG: Not regulated.

SECTION 15. REGULATORY INFORMATION

US Regulations

SARA
Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Sulfuric Acid
FORMALDEHYDE

CERCLA Hazardous Substance List (40 CFR 302.4) - Reportable Quantity:

Clean Air Act
Clean Air Act 111 Standards of Performance for New Stationary Sources: FORMALDEHYDE

Clean Water Act
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): FORMALDEHYDE
Sulfuric Acid
SODIUM BISULFITE

State Regulations
Massachusetts Right-To-Know List: FORMALDEHYDE
Sulfuric Acid

New Jersey Right-To-Know List: WATER
AMMONIUM ALCOHOL ETHER SULFATE
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE
**Pennsylvania Right-To-Know List**: AMMONIUM ALCOHOL ETHER SULFATE
WATER

**Canada**

**Canadian Controlled Products Regulations**: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

**Other Information**

**TSCA Section 8(b) Status**: All ingredients in this product are listed on the TSCA Inventory or are not required to be listed on the TSCA Inventory.

**SECTION 16. OTHER INFORMATION**

**Further information**

**MSDS Number**: 200000025378

Disclaimer: The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.
1. SUBSTANCE AND SUPPLIER IDENTIFICATION

PRODUCT NAME: Portable Self-Contained Eyewash Station Preservative Solution

PRIVATE LABELED FOR: SAS Safety Corp.
ADDRESS: 3091 Gardenia Ave., Long Beach, CA 90807
PHONE: 1-800-262-0200

MANUFACTURER: Germiphene Corporation
ADDRESS: 1379 Colborne Street East, Brantford, Ontario N3T 5M1, Canada
PHONE: 519-759-7100
FAX: 519-759-1625

EMERGENCY PHONE: CANUTEC 613-996-6666

PRODUCT USE: Preserves potable water in eyewash stations.

2. HAZARD IDENTIFICATION

NOTE: Hazard classification is based on the concentrated product. As expected, the associated product risk decreases with dilution. At the dilution required for use by the label, this product is safe for its intended use and is not expected to irritate the eyes. Always ensure product is diluted according to label instructions prior to use.

GHS Classification:

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity:</td>
<td>Category 4</td>
<td>Acute Toxicity:</td>
</tr>
<tr>
<td>Skin Irritation:</td>
<td>Category 2</td>
<td>Chronic Toxicity:</td>
</tr>
<tr>
<td>Serious Eye Damage/Irritation:</td>
<td>Category 2</td>
<td></td>
</tr>
</tbody>
</table>

SIGNAL WORD: Warning

SYMBOLS:

[Warning symbol]

Hazard Statements

<table>
<thead>
<tr>
<th>Hazard Statements</th>
<th>Precautionary Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H320: Causes eye irritation</td>
<td>P280: Wear appropriate protective gloves/eye protection</td>
</tr>
<tr>
<td>H315: Causes skin irritation</td>
<td>P264: Wash hands thoroughly after handling.</td>
</tr>
<tr>
<td>H303: May be harmful if swallowed</td>
<td>P270: Do not eat, drink, or smoke when using this product.</td>
</tr>
<tr>
<td></td>
<td>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td></td>
<td>P337+P313: If eye irritation persists, get medical attention.</td>
</tr>
<tr>
<td></td>
<td>P302+P352: IF ON SKIN: Wash with plenty of soap and water.</td>
</tr>
<tr>
<td></td>
<td>P362: Take off contaminated clothing and wash before reuse.</td>
</tr>
<tr>
<td></td>
<td>P332 + P313: If skin irritation occurs, get medical advice/attention.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Product name: Portable Self-Contained Eyewash Station Preservative Solution
Last revised date: 06 April 2015
Expiry: 06 April 2018

Precautionary Statements (cont’)
P301+P312: IF SWALLOWED: Call a Poison Center or physician if you feel unwell. P330: Rinse mouth.

HEALTH HAZARDS OR RISKS FROM EXPOSURE:
Concentrated solutions have been known to cause serious eye damage if not promptly rinsed from the eye. May cause deafness if instilled in the inner ear through perforated eardrums.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS No:</th>
<th>% wt:</th>
<th>HAZARDOUS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorhexidine Gluconate</td>
<td>18472-51-0</td>
<td>1</td>
<td>yes</td>
</tr>
<tr>
<td>Propylene Glycol</td>
<td>57-55-6</td>
<td>10</td>
<td>yes</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
SKIN: Remove contaminated clothing and rinse skin thoroughly with water.
INGESTION: Drink plenty of water. If uncomfortable, seek medical attention.
INHALATION: Move into fresh air and keep at rest.
NOTE TO PHYSICIAN: In case of ingestion, monitor for acidosis and central nervous system changes. Exposed persons with previous kidney dysfunction may require special treatment.

5. FIREFIGHTING MEASURES

FLAMMABILITY: No
COMBUSTIBLE: No
HAZARDOUS COMBUSTION PRODUCTS: N/Av
EXTINGUISHING MEDIA: None
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wipe with absorbent paper, use industrial cleaning compound.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin, and clothing.
STORAGE: Store between 0°C and 30°C.
SAFETY DATA SHEET

Product name: Portable Self-Contained Eyewash Station Preservative Solution
Last revised date: 06 April 2015
Expiry: 06 April 2018

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Not available
ENGINEERING CONTROLS: Ventilation is recommended. Immediately flush eyes and skin with water.

Personal Protective Equipment (PPE)
RESPIRATORY PROTECTION: N/A
EYE PROTECTION: Yes. Goggles recommended.
SKIN PROTECTION: Yes. Protective gloves recommended.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: No

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid, colourless to light yellow
ODOUR: Odourless
PHYSICAL STATE: Liquid
pH: 5.0 - 7.0
BOILING POINT: N/Av
FREEZING POINT: N/Av
EVAPORATION RATE: N/Av
VISCOSITY @ 22 ± 1°C: N/Av
VAPOUR PRESSURE (mmHg): N/Av
SPECIFIC GRAVITY @ 22 ± 1°C: 1.00 - 1.10
SOLUBILITY: Infinitely soluble in water.
ODOR THRESHOLD: N/Av
RELATIVE DENSITY: N/Av
FLASH POINT: None
FLAMMABILITY: None
FLAMMABILITY/EXPLOSIVE LIMITS: None

10. STABILITY AND REACTIVITY

STABILITY: Stable
CONDITIONS TO AVOID (STABILITY): None
INCOMPATIBILITY (MATERIAL TO AVOID): None
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None
HAZARDOUS POLYMERIZATION: No
CONDITIONS TO AVOID (POLYMERIZATION): None

11. TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: Skin and eye contact
SKIN CONTACT: Unknown
EYE CONTACT: May cause eye irritation.
INHALATION: Unknown
INGESTION: Unknown

CHRONIC (LONG TERM) EFFECTS: Unknown

TOXICITY: Chlorhexidine Gluconate Oral: LD50 1.8 g/kg (rat)
SAFETY DATA SHEET

Product name: Portable Self-Contained Eyewash Station Preservative Solution
Last revised date: 06 April 2015
Expiry: 06 April 2018

Propylene Glycol
Oral: LD50 20 g/kg (rat), Dermal: LD50 20.8 g/kg (rabbit)
Eye irritation rabbit (Draize) 500 mg/24h, mild

CARCINOGENICITY: Not a known carcinogen according to the National Toxicology Program 13th Carcinogen Report.

12. ECOLOGICAL INFORMATION
ECOTOXICITY: Not available
MOBILITY: Not available
DEGRADABILITY: No known hazardous degradable products
BIOACCUMULATION: Not available

13. DISPOSAL CONSIDERATIONS
WASTE DISPOSAL METHOD: Dispose in accordance with Federal, Provincial and Municipal regulations.

14. TRANSPORT INFORMATION
N/Av

15. REGULATORY INFORMATION
DANGER SYMBOL:

RISK PHRASES: Warning

USEPA REGULATIONS
TSCA Inventory—all components are listed on the USEPA’s TSCA Inventory.
SARA Title III-Hazard Class(es): Acute Health Hazard
SARA Title III-Section 313 Supplier Notification: This product contains no such chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

Canada Controlled Products Regulations Information
Domestic Substance List (DSL)—all components are listed on the DSL.
Components Toxicology Data

<table>
<thead>
<tr>
<th>Component (CASRN)</th>
<th>LD50 (Route/Species)</th>
<th>LC50 (Species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol (57-55-6)</td>
<td>20,000 mg/kg (oral/rat)</td>
<td>No data available</td>
</tr>
<tr>
<td>Chlorhexidine gluconate (18472-51-0)</td>
<td>1,800 mg/kg (oral/rat)</td>
<td>No data available</td>
</tr>
</tbody>
</table>

WHMIS Hazard Classification(s) of product: none applicable.
Components on Ingredients Disclosure List: Propylene glycol (CASRN 57-55-6).
16. OTHER INFORMATION

**Prepared by:** Germiphene Technical Department  
**Reissue date/Reason for reissue:** 06 Apr 2015 / Revised to SDS Format  
**Intended use of product:** Preserves potable water in eyewash stations

Disclaimer

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product or information contained in this Material Safety Data Sheet. All information contained herein is presented in good faith and is believed to be appropriate and accurate. However, neither the above named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state, provincial, or local regulations concerning the use, misuse, or disposal of these products.
SECTION 1. IDENTIFICATION

Product name : PURELL® Advanced Hand Sanitizer Aloe Gel

Manufacturer or supplier's details
Company name of supplier : GOJO Industries, Inc.
Address : One GOJO Plaza, Suite 500
Akron OH 44311
Telephone : 1 (330) 255-6000
Emergency telephone : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use
Recommended use : Hand Sanitizer
Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids : Category 3
Eye irritation : Category 2A

GHS Label element
Hazard pictograms : 

Signal Word : Warning
Hazard Statements : H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.
Precautionary Statements:

Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection.

Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:
P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards:
Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

In case of skin contact: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn.
Get medical attention.

If swallowed: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed: Causes serious eye irritation.

Protection of first-aiders: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician: Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet

Specific hazards during fire fighting: Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.

Hazardous combustion products: Carbon oxides

Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions: Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:
Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures:
See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation:
Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling:
Do not breathe vapors or spray mist.
Do not swallow.
Do not get in eyes.
Avoid prolonged or repeated contact with skin.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage:
Keep in properly labeled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.

Materials to avoid:
Do not store with the following product types:
Strong oxidizing agents
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>500 ppm 1,225 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift at end of work-week</td>
<td>40 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Engineering measures: Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and
Hand protection
Material: Impervious gloves
Material: Flame retardant gloves
Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection: Wear the following personal protective equipment: Safety goggles

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures: Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: clear, light green
Odor: alcohol-like
Odor Threshold: No data available
pH: 6.5 - 8.5
Melting point/freezing point: No data available
Initial boiling point and boiling range: 76 °C
Flash point : 24 °C
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : No data available
Relative vapor density : No data available
Density : 0.881 g/cm³

Solubility(ies)
Water solubility : soluble
Partition coefficient: n-octanol/water : Not applicable
Autoignition temperature : No data available
Decomposition temperature : The substance or mixture is not classified self-reactive.

Viscosity
Viscosity, kinematic : 3,500 - 23,000 mm²/s (20 °C)

Explosive properties : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Flammable liquid and vapor.
Vapors may form explosive mixture with air.
Can react with strong oxidizing agents.
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : No hazardous decomposition products are known.
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Ingredients:

Ethanol:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity: LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Propan-2-ol:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity: LC50 (Rat): 72.6 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity: LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Product: Result: No skin irritation

Ingredients:

Ethanol:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Propan-2-ol:
Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Causes serious eye irritation.

Ingredients:
**Ethanol:**
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

**Propan-2-ol:**
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

**Respiratory or skin sensitization**
Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

**Product:**
Assessment: Does not cause skin sensitization.

**Ingredients:**

**Ethanol:**
Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse
Result: negative

**Propan-2-ol:**
Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

**Germ cell mutagenicity**
Not classified based on available information.

**Ingredients:**

**Ethanol:**
Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo: Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Ingestion
Result: negative

**Propan-2-ol:**
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative
Carcinogenicity
Not classified based on available information.

Ingredients:
Propan-2-ol:
Species: Rat
Application Route: inhalation (vapor)
Exposure time: 104 weeks
Method: OECD Test Guideline 451
Result: negative

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity
Not classified based on available information.

Ingredients:
Ethanol:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Propan-2-ol:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development: Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT-single exposure
Not classified based on available information.

Ingredients:
Propan-2-ol:
Assessment: May cause drowsiness or dizziness.
STOT-repeated exposure
Not classified based on available information.

Repeated dose toxicity

Ingredients:
Ethanol:
Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 y

Propan-2-ol:
Species: Rat
NOAEL: 5000 ppm
Application Route: inhalation (vapor)
Exposure time: 104 w
Method: OECD Test Guideline 413

Aspiration toxicity
Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:
Ethanol:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 9.6 mg/l
Exposure time: 9 d

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l
Exposure time: 0.25 h

Propan-2-ol:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 24 h

Toxicity to algae : ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l
Exposure time: 8 d

Toxicity to bacteria: EC50 (Pseudomonas putida): > 1,050 mg/l
Exposure time: 16 h

**Persistence and degradability**

**Ingredients:**

**Ethanol:**
- Biodegradability: Result: Readily biodegradable.
- Biodegradation: 84 %
- Exposure time: 20 d

**Propan-2-ol:**
- Biodegradability: Result: rapidly degradable

**Bioaccumulative potential**

**Ingredients:**

**Ethanol:**
- Partition coefficient: n-octanol/water: log Pow: -0.35

**Propan-2-ol:**
- Partition coefficient: n-octanol/water: log Pow: 0.05

**Mobility in soil**
No data available

**Other adverse effects**
No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

- Waste from residues: Dispose of in accordance with local regulations.
- Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

**International Regulation**

**UNRTDG**
- UN number: UN 1987
- Proper shipping name: ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)

Class: 3
Packing group: III
Labels: 3

IATA-DGR
UN/ID No.: UN 1987
Proper shipping name: Alcohols, n.o.s.
(Ethanol, Propan-2-ol)
Class: 3
Packing group: III
Labels: Flammable Liquids
Packing instruction (cargo aircraft): 366
Packing instruction (passenger aircraft): 355

IMDG-Code
UN number: UN 1987
Proper shipping name: ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)
Class: 3
Packing group: III
Labels: 3
EmS Code: F-E, S-D
Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR
UN/ID/NA number: UN 1987
Proper shipping name: ALCOHOLS, N.O.S.
Class: 3
Packing group: III
Labels: FLAMMABLE LIQUID
ERG Code: 127
Marine pollutant: no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Fire Hazard
Acute Health Hazard

**SARA 302**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313**
The following components are subject to reporting levels established by SARA Title III, Section 313:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>Reportable Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>3.4086 %</td>
</tr>
</tbody>
</table>

**US State Regulations**

**Pennsylvania Right To Know**
- **Ethanol**: 64-17-5, 50 - 70 %
- **Water**: 7732-18-5, 30 - 50 %
- **Propan-2-ol**: 67-63-0, 1 - 5 %

**New Jersey Right To Know**
- **Ethanol**: 64-17-5, 50 - 70 %
- **Water**: 7732-18-5, 30 - 50 %
- **Propan-2-ol**: 67-63-0, 1 - 5 %

**California Prop 65**
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

**AICS**: All ingredients listed or exempt.

**Inventories**

- AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)
SECTION 16. OTHER INFORMATION

Further information

NFPA:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special hazard.

HMIS III:

- **HEALTH**: 2
- **FLAMMABILITY**: 3
- **PHYSICAL HAZARD**: 0

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Full text of other abbreviations

- ACGIH : USA. ACGIH Threshold Limit Values (TLV)
- ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
- NIOSH REL : USA. NIOSH Recommended Exposure Limits
- OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA Z-1 / TWA : 8-hour time weighted average


Revision Date : 03/18/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user’s end product, if applicable.

US / Z8
MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2  Flammability = 0  Reactivity = 0
HMIS RATING: Health = 2  Flammability = 0  Reactivity = 0

SECTION I -- IDENTIFY AND MANUFACTURER'S INFORMATION
Distributor's Name: HILLYARD INDUSTRIES
Product Name: RE-JUV-NAL HBV
Address: 302 North Fourth Street
St. Joseph, MO 64501
Date Prepared: October 10, 1997
Prepared by: Regulatory Affairs Department
Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)
Other information calls: (816) 233-1321 (Ext. 8285)
http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION
Components (Specific Chemical Identity: OSHA ACGIH OTHER LIMITS RECOMMENDED %)

<table>
<thead>
<tr>
<th>Common Name(s)</th>
<th>CAS#</th>
<th>PEL</th>
<th>TLV</th>
<th>RECOMMENDED</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyldimethylbenzyl Ammonium Chloride</td>
<td>68391-01-5</td>
<td>established</td>
<td>established</td>
<td>N/A</td>
<td>2.25</td>
</tr>
<tr>
<td>Alkyldimethylethylbenzyl Ammonium Chloride</td>
<td>68956-79-6</td>
<td>not established</td>
<td>not established</td>
<td>N/A</td>
<td>2.25</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>497-19-8</td>
<td>not established</td>
<td>not established</td>
<td>N/A</td>
<td>1-5</td>
</tr>
<tr>
<td>Nonionic Surfactant</td>
<td>9016-45-9</td>
<td>not established</td>
<td>not established</td>
<td>N/A</td>
<td>1-5</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>none</td>
<td>none</td>
<td>none</td>
<td>---</td>
</tr>
</tbody>
</table>

VOC = less than 0.01%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: approximately 212°F
Vapor Pressure (mm Hg.): not established
Vapor Density (AIR = 1): not established
Solubility in Water: complete
pH = 11.7
Specific Gravity (H₂O = 1): 225°C = 1.35 & 39°C = 1.35
Percent Volatile by Volume (%): >85%
Evaporation Rate (ethyl ether = 1): slower than 1
Appearance and Odor: Clear liquid, light floral fragrance

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA
Flash point: None (T.C.C.)
Flammable Limits: LEL = N.A. UEL = N.A.
Extinguishing Media: Water, CO₂, Foam or media suitable for surrounding fire.
Special Fire Fighting Procedures: Standard fire fighting procedures may be followed, including full protective gear, NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: None known.

SECTION V -- PHYSICAL HAZARDS
Stability: Stable
Conditions to Avoid: None known to manufacturer.
Incompatibility (Materials to Avoid): Do not mix with other chemicals.
Hazardous Decomposition Products or Byproducts: Thermal decomposition on burning may produce toxic vapors or gases.
Hazardous Polymerization: Will not Occur
Conditions to Avoid: None known.

SECTION VI -- HEALTH HAZARD DATA
Routes of entry: Inhalation? by mist  Skin? yes  Ingestion? yes
HEALTH HAZARDS (1. Acute and 2. Chronic)
1. Harmful if swallowed. Eye and skin irritant.
2. None known.
SECTION VI -- HEALTH HAZARD DATA continued
Chemical listed as Carcinogen or Potential Carcinogen:
National Toxicology Program = No  I.A.R.C. Monographs = No  OSHA = No
This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

Signs and Symptoms of Exposure: Irritation or burning sensation.
Medical Conditions Generally Aggravated by Exposure: May aggravate skin disorders or respiratory ailments.
Emergency and First Aid Procedures: EYE CONTACT: Flush immediately with water for 15 minutes. Get medical attention.
SKIN CONTACT: Flush with water for 15 minutes. Remove and wash contaminated clothing. INGESTION: Rinse mouth with water. Then drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE
Steps To Be Taken In Case Material Is Released Or Spilled:
Wear appropriate protective equipment. If possible, contain spill and collect in approved container. Rinse affected area thoroughly with water. Keep product out of sewers or waterways. Hold for disposal.

Waste Disposal Method:
Dispose of in accordance with local, state and federal regulations. If possible, triple rinse container, and recycle.

Precautions To Be Taken In Handling And Storing:
Avoid contact with skin or eyes. Avoid breathing vapor, spray or mist. Store in original container, in cool dry place with adequate ventilation. Keep out of reach of children. Keep container tightly closed when not in use.

Other Precautions: Use only according to label directions. If unsure about safe use, contact your supervisor immediately.
Container disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES
Respiratory Protection (Specify Type):
Not expected to be necessary under normal conditions of use. Where exposure cannot be adequately controlled by general or local ventilation, use appropriate respiratory protection to prevent over exposure. An approved dust/mist respirator would be recommended.

Ventilation: Local Exhaust = As necessary  Mechanical (General) = Adequate  Special = N.A.  Other = N.A.
Protective Gloves: Water impervious gloves (Latex, Neoprene ).  Eye Protection: Chemical Resistant Goggles or Face Shield.
Other Protective Clothing or Equipment: Eye wash recommended.

SECTION IX - TRANSPORTATION INFORMATION
Applicable regulations: DOT = Yes; IMCO = Yes; IATA = Yes
Proper shipping name (Gallon Boxes) for U.S. Highway: Consumer Commodity ORM-D
Proper shipping name (5 Gallon Drums) for U.S. Highway: Corrosive Liquid N.O.S., (N-Alkyldimethylbenzyl Ammonium Chloride), 8, UN 1760, PG III
UN No.: UN1760  Limited Qty.: not applicable  Hazard Class: 8
Label required: Not required on gallon boxes by highway; 5 gallon drum = Corrosive Label
DOT Exception: Not applicable
EPA Hazardous waste/number code: Not listed
EPA Hazardous waste characteristics: Ignitability = Not applicable; Corrosivity = Not applicable; Reactivity = Not applicable

DISCLAIMER OF WARRANTIES
NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.
The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.
THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SOFTSOAP ANTIBACTERIAL LIQUID HAND SOAP
Product code : 200000045435

Manufacturer or supplier's details
Company : Colgate-Palmolive Co
300 Park Avenue
New York, NY 10022

Telephone : US: Consumer Affairs - 1-800-468-6502

Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Medical Emergency (24HR): For MEDICAL EMERGENCIES involving this product call: (888) 489-3861

Recommended use of the chemical and restrictions on use
Recommended use : A formulated fragrance for consumer products.

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Physical state</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
</tbody>
</table>

GHS Classification

| Skin irritation | Category 2 |
| Eye irritation  | Category 2A |

GHS Label element

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Warning</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hazard statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315 Causes skin irritation.</td>
</tr>
<tr>
<td>H319 Causes serious eye irritation.</td>
</tr>
</tbody>
</table>
Precautionary statements:

**Prevention:**
- P264 Wash skin thoroughly after handling.
- P280 Wear eye protection/ face protection.
- P280 Wear protective gloves.

**Response:**
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.

**Potential Health Effects**

**Inhalation:**
Overexposure may cause respiratory tract irritation.

**Skin:**
Causes skin irritation. Prolonged contact may cause allergic dermatitis.

**Eyes:**
Causes eye irritation on direct contact.

**Ingestion:**
May be harmful if swallowed in large quantities.

**Aggravated Medical Condition:**
None known.

**Carcinogenicity:**

**IARC**
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous components**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETRIMONIUM CHLORIDE</td>
<td>112-02-7</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

If inhaled: Remove victim to fresh air. Get medical attention, if symptoms persist.

In case of skin contact: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

In case of eye contact: Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

If swallowed: Drink 8 ounces of clear water. Get medical attention.

Most important symptoms and effects, both acute and delayed:
Causes skin irritation.
Causes serious eye irritation.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous combustion products: No hazardous combustion products are known

Special protective equipment for firefighters: Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protection recommended in Section 8 of the SDS.

Methods and materials for containment and cleaning up: Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of water.

SECTION 7. HANDLING AND STORAGE

Conditions for safe storage: Store at controlled room temperature at 20-25°C (68-77°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type</th>
<th>Control parameter</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCERIN</td>
<td>56-81-5</td>
<td>&gt;= 1 - &lt; 5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Softsoap Antibacterial Liquid Hand Soap
This industrial Safety Data Sheet provides health and safety information for occupational use only.

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<table>
<thead>
<tr>
<th>(Form of exposure)</th>
<th>TWA / Permissible concentration</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLYCERIN</td>
<td>56-81-5</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA (mist, respirable fraction)</td>
<td>15 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA (mist, total dust)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>TWA (Mist - total dust)</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering measures**: In an industrial work environment, no special precautions or control measures are required.

**Personal protective equipment**
Respiratory protection: No personal respiratory protective equipment normally required.

Protective measures: In an industrial work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact may require protective gloves. For consumer use, no unusual precautions are necessary.

Hygiene measures: In an industrial work environment, avoid eye and prolonged skin contact.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Appearance**: liquid
- **Colour**: colourless
- **pH**: 8.6
- **Flash point**: > 200 °F
- **Density**: > 0.0000 g/cm³

**SECTION 10. STABILITY AND REACTIVITY**

- **Possibility of hazardous reactions**: Hazardous polymerisation does not occur.
- **Incompatible materials**: Strong oxidizing agents
- **Hazardous decomposition products**: None known.
SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
Not classified based on available information.

**Product:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute oral toxicity</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETRIMONIUM CHLORIDE</td>
<td>LD50 (Rat): 450 mg/kg</td>
<td>OECD Test Guideline 401</td>
</tr>
<tr>
<td>GLYCERIN</td>
<td>LD50 (Rat): &gt; 5,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute dermal toxicity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETRIMONIUM CHLORIDE</td>
<td>LD50 (Rabbit): 429 mg/kg</td>
<td>No information available.</td>
</tr>
<tr>
<td>GLYCERIN</td>
<td>LD50 (Rabbit): &gt; 5,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
Causes skin irritation.

**Components:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETRIMONIUM CHLORIDE</td>
<td>Corrosive after 1 to 4 hours of exposure</td>
</tr>
<tr>
<td>GLYCERIN</td>
<td>No skin irritation</td>
</tr>
</tbody>
</table>

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Components:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>CETRIMONIUM CHLORIDE</td>
<td>Irreversible effects on the eye</td>
</tr>
<tr>
<td>GLYCERIN</td>
<td>Remarks: No data available</td>
</tr>
</tbody>
</table>
Respiratory or skin sensitisation
Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

Components:
CETRIMONIUM CHLORIDE:
Exposure routes: Inhalation
Result: Does not cause respiratory sensitisation.

Exposure routes: Dermal
Result: Does not cause skin sensitisation.

GLYCERIN:
Exposure routes: Inhalation
Remarks: No data available

Exposure routes: Dermal
Result: Does not cause skin sensitisation.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
Not classified based on available information.

Reproductive toxicity
Not classified based on available information.

STOT - single exposure
Not classified based on available information.

STOT - repeated exposure
Not classified based on available information.

Aspiration toxicity
Not classified based on available information.

Further information

Product:
Remarks: This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the SDS.

SECTION 12. ECOLOGICAL INFORMATION

The product has not been tested as a whole for environmental toxicity. However, environmental information on the ingredients in this product have been reviewed by the Environmental, Health and Safety group of Colgate-Palmolive and determined to have an acceptable environmental profile. This evaluation is based on available information on individual ingredients, interactions of ingredients, and similar ingredients. Biodegradability claims are supported by data on ingredients (i.e., surfactants are biodegradable) or testing conducted on the final product (i.e., This product is biodegradable).
SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in sewers, any body of water or on the ground.

SECTION 14. TRANSPORT INFORMATION

DOT: Not regulated.
TDG: Not regulated.
IATA: Not regulated.
IMDG: Not regulated.
ADR: 

International Regulation
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.
National Regulations

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Toxic by ingestion, Moderate skin irritant, Severe eye irritant

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROGEN PEROXIDE</td>
<td>7722-84-1</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 311/312 Hazards: Acute Health Hazard
SOFTSOAP ANTIBACTERIAL LIQUID HAND SOAP

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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

GLYCERIN 56-81-5

Clean Water Act
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

Massachusetts Right To Know
GLYCERIN 56-81-5
HYDROGEN PEROXIDE 7722-84-1

Pennsylvania Right To Know
WATER Water
GLYCERIN 56-81-5

New Jersey Right To Know
WATER Water
CETRIMONIUM CHLORIDE 112-02-7
GLYCERIN 56-81-5
LAURAMIDOPROPYLDIMETHYLAMINE OXIDE 61792-31-2

California Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Further information

NFPA:

Flammability

Health

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

HMIS III:

HEALTH

FLAMMABILITY

PHYSICAL HAZARD

Special hazard.

Disclaimer: The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.
1. IDENTIFICATION

Product Name  Swiffer Wet Jet Floor Cleaner - Open Window Fresh, Gain, Lavender and Vanilla, Grease Fighting Power of Dawn

Product ID: 92055101_RET_NG

Product Type: Finished Product - Consumer (Retail) Use Only

Recommended Use  Hard Surface Cleaner

Restrictions on Use  Use only as directed on label.

Synonyms  Swiffer Wet Jet Floor Cleaner - Open Window Fresh, Gain, Lavender and Vanilla, Grease Fighting Power of Dawn (92057211_RET_NG)
Swiffer Wet Jet Floor Cleaner - Open Window Fresh, Gain, Lavender and Vanilla, Grease Fighting Power of Dawn (92068626_RET_NG)
Swiffer Wet Jet Floor Cleaner - Open Window Fresh, Gain, Lavender and Vanilla, Grease Fighting Power of Dawn (96848475_RET_NG)

Manufacturer  PROCTER & GAMBLE - Fabric and Home Care Division. Ivorydale Technical Centre. 5289 Spring Grove Avenue, Cincinnati, Ohio 45217-1087 USA

E-mail Address  pgsds.im@pg.com

Emergency Telephone  Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./ Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows::

Not Classified.

Hazard Statements  None
Hazard pictograms  None
Precautionary Statements - Prevention  None
Precautionary Statements - Response  None
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation.

None

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact
Rinse with plenty of water. Get medical attention immediately if irritation persists.

Skin contact
Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion
Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed
None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically.

Notes to Physician

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Dry chemical, CO₂, alcohol-resistant foam or water spray. Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media
None.

Special hazard
None known.

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific hazards arising from the chemical
None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
Advice for emergency responders Use personal protective equipment as required.

Environmental precautions Keep out of waterways. Do not discharge product into natural waters without pre-treatment or adequate dilution.

Methods and materials for containment and cleaning up

Methods for containment Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines No exposure limits noted for ingredient(s).

Exposure controls

Engineering Measures Distribution, Workplace and Household Settings: Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

Eye Protection Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Use appropriate eye protection

Hand Protection Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY): Protective gloves
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>clear</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Fresh</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>Products comply with US state and federal</td>
<td>regulations for VOC content in consumer products.</td>
</tr>
<tr>
<td>pH value</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/bolling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93.3 °C / &gt; 200 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&gt; 1</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>&lt; 10mm Hg</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>0.996</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>completely soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity of Product</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
None under normal use conditions.

Stability
Stable under normal conditions.

Hazardous polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

Conditions to Avoid
None under normal processing.

Materials to avoid
None in particular.

Hazardous Decomposition Products
None under normal use.

11. TOXICOLOGICAL INFORMATION
Product Information

Information on likely routes of exposure

Inhalation No known effect.
Skin contact No known effect.
Ingestion No known effect.
Eye contact No known effect.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity No known effect.
Skin corrosion/irritation No known effect.
Serious eye damage/eye irritation No known effect.
Skin sensitization No known effect.
Respiratory sensitization No known effect.
Germ cell mutagenicity No known effect.
Neurological Effects No known effect.
Reproductive toxicity No known effect.
Developmental toxicity No known effect.
Teratogenicity No known effect.
STOT - single exposure No known effect.
STOT - repeated exposure No known effect.
Target Organ Effects No known effect.
Aspiration hazard No known effect.
Carcinogenicity No known effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

Persistence and degradability No information available.
Bioaccumulative potential No information available.
Mobility No information available.
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Codes (non-household setting) 331

14. TRANSPORT INFORMATION

DOT Not regulated
IMDG Not regulated
IATA Not regulated
15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

California Proposition 65
This product is not subject to warning labeling under California Proposition 65.

U.S. State Regulations (RTK)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>X</td>
</tr>
</tbody>
</table>

International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

Issuing Date: 27-Feb-2015
Revision Date: 27-Feb-2015
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation,
disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

McNeil Consumer & Specialty Pharmaceuticals
7050 Camp Hill Rd.
Fort Washington, PA 19034

EMERGENCY TELEPHONE NUMBER
-----------------------------
McNeil Consumer & Specialty Pharmaceuticals (215) 273-7000

PRODUCT NAME: TYLENOL EXTRA STRENGTH CAPLETS

CHEMICAL NAME: Acetaminophen

CHEMICAL FAMILY: Analgesic/Antipyretic

CHEMICAL FORMULA: C8H9NO2

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: ACETAMINOPHEN
PERCENT BY WEIGHT: 50 to 90
C.A.S. # 103-90-2
OEL-TWA = 3.0 mg/m3

INGREDIENT: CELLULOSE
PERCENT BY WEIGHT: 1 to 10

INGREDIENT: POVIDONE
PERCENT BY WEIGHT: 1 to 10
C.A.S. # 9003-39-8

INGREDIENT: STARCH
PERCENT BY WEIGHT: 1 to 10
C.A.S. # 9005-25-8

INGREDIENT: Opadry
PERCENT BY WEIGHT: 1 to 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
* If a rare sensitivity reaction occurs, drug usage should be stopped.

POTENTIAL HEALTH EFFECTS

EYES

No effects expected.
SKIN
----
No effects expected.

INGESTION
---------
No effects expected under normal handling conditions; i.e., dispensing and administering caplets.

INHALATION
----------
No effects expected from normal handling of caplets outside of package.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
--------------------------------------------------
In case of accidental overdose, contact a Physician or Poison Control Center.

4. FIRST AID MEASURES
****************************

EYES
----
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; S26.

SKIN
----
After contact with skin, wash immediately with plenty of water and get medical attention if irritation develops or persists; S28.

INGESTION
---------
If swallowed, seek medical advice immediately and show this container or label; S46.

INHALATION
---------
Obtain medical attention.

5. FIRE FIGHTING MEASURES
****************************

FIRE AND EXPLOSION HAZARDS
-----------------------------
None

EXTINGUISHING MEDIA
---------------------
Use any media which is suitable for the surrounding fire.

FIRE FIGHTING INSTRUCTIONS
-----------------------------
No special procedure necessary.
6. ACCIDENTAL RELEASE MEASURES
Collect and discard into appropriate container, then dispose of in accordance with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE
HANDLING AND STORAGE PRECAUTIONS
No special storage or handling necessary. This product should be handled and stored per label instructions to ensure product integrity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
ENGINEERING CONTROLS
None required.

EYE/FACE PROTECTION
None required.

SKIN PROTECTION
None required.

RESPIRATORY PROTECTION
None required.

OTHER/GENERAL PROTECTION
None needed.

9. PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE
White caplets

10. STABILITY AND REACTIVITY
STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
11. TOXICOLOGICAL INFORMATION

EYE EFFECTS
---------
Unknown

SKIN EFFECTS
----------
Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
-----------------------------
Unknown

13. DISPOSAL CONSIDERATIONS

Ensure compliance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Not regulated

15. REGULATORY INFORMATION

NO DATA GIVEN

16. OTHER INFORMATION

REFERENCE DOCUMENTATION
------------------------
Refer to label or package insert.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES
-------------------------------------------------
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assumes no responsibility regarding the suitability of this information for the user’s intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).
Cold Pack - Single Use

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Johnson and Johnson Consumer Companies, Inc.
199 Grandview Road
Skillman, NJ 08558-9418

EMERGENCY TELEPHONE NUMBER

Information Center (800)526-3967

PRODUCT NAME: JOHNSON'S® Instant Coldpack
               COACH® Instant Coldpack

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT: Purified Water, USP
            CAS #: 7732-18-5
            PERCENT BY WEIGHT: 50%

INGREDIENT: Ammonium Nitrate
            CAS #: 6484-52-2
            PERCENT BY WEIGHT: 50%

Composition presented in approximate amounts.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Keep out of reach of children. (S2)

PRIMARY ROUTE(S) OF ENTRY

Eye and Skin, if liquid escapes from sealed container.
No hazard expected with intact product.

EYES

Liquid content may cause irritation to the eyes; R36.
Avoid contact with eyes; S25

SKIN

Liquid content may be irritating to skin; R38.
INGESTION

Harmful if swallowed; R22.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

In case of accidental overdose, contact a Physician or Poison Control Center.

4. FIRST AID MEASURES

EYES

In case of contact with eyes, rinse with plenty of water and seek medical advice; S26.

SKIN

Get medical attention if irritation develops or persists; S28

INGESTION

If swallowed, seek medical advice immediately and show the package container or label; S46

Note to physician: Remove material from stomach by induction of emesis lavage. Observe and treat symptomatically. Monitor the blood for hemoglobin levels.

INHALATION

If symptoms develop obtain medical attention.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS

None

EXTINGUISHING MEDIA

Use any media that are suitable for the surrounding fire.

FIRE FIGHTING INSTRUCTIONS

No special procedure is necessary.
6. ACCIDENTAL RELEASE MEASURES

Collect and discard into appropriate container, then dispose of in accordance with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS

Keep from freezing. This product should be handled and stored per label instructions to ensure product integrity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

None required.

EYE/FACE PROTECTION

None required.

SKIN PROTECTION

None required.

RESPIRATORY PROTECTION

None required.

OTHER/GENERAL PROTECTION

None required.
9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Sealed plastic bag containing liquid.

pH

5.0 to 5.5

BASIC PHYSICAL PROPERTIES

Solubility: Sag contents completely soluble in water.

10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES

Unknown

EYE EFFECTS

Unknown

SKIN EFFECTS

Unknown

CHRONIC (CANCER INFORMATION)

Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Unknown
13. DISPOSAL CONSIDERATIONS

Ensure compliance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: ORM-D, Other Regulated Material (DOT)

15. REGULATORY INFORMATION

Ammonium nitrate is listed under various state right to know laws including, but not limited to New Jersey, Massachusetts, and Pennsylvania.

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

This product is not subject to the reporting requirements under California's Proposition 65.

16. OTHER INFORMATION

REFERENCE DOCUMENTATION

Refer to label or package insert.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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Johnson and Johnson Consumer Companies, Inc.
MATERIAL SAFETY DATA SHEET

Product: FIRST AID CREAM
CAS Number: NOT ESTABLISHED

SECTION 1 - CHEMICAL IDENTIFICATION

Company: Johnson & Johnson Consumer Products, Inc.
Grandview Road
Skillman, NJ 08558

Emergency Contact: INFORMATION CENTER
Emergency Phone: 800-426-3967

Issue Date: 1/12/97

SECTION 2 - CHEMICAL COMPONENT

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<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>%</th>
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</thead>
<tbody>
<tr>
<td>STEARYL ALCOHOL</td>
<td>112-92-5</td>
<td>&lt;4.0</td>
<td>NOT REGULATED BY 29 CFR 1910.1000</td>
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<tr>
<td>BENZYL ALCOHOL</td>
<td>100-51-6</td>
<td>&lt;3.0</td>
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<tr>
<td>CETYL ALCOHOL</td>
<td>36653-82-4</td>
<td>&lt;1.0</td>
<td>NOT REGULATED BY 29 CFR 1910.1000</td>
</tr>
</tbody>
</table>

These materials are not listed by NTP, IARC, or OSHA as carcinogens or potential carcinogens.


This product is not intended for industrial use.

SECTION 3 - PHYSICAL DATA

Solubility: SOLUBLE IN WATER
Appearance: OPAQUE CREAM
Odor: CHARACTERISTIC ODOR

Vapor Pressure:
Flash Point:

SECTION 4 - FIRE FIGHTING & EXPLOSION DATA

FIRE AND EXPLOSION HAZARDS: PACKAGING MATERIALS MAY BURN IF EXPOSED TO EXTREME HEAT. PRODUCT WILL BURN IF EXPOSED TO EXTREME HEAT OR OPEN FLAME.

EXTINGUISHING MEDIA: MEDIA SUITABLE FOR PRODUCT. CONSUMER COMMODITY PACKAGING AND SURROUNDING FIRE.

SPECIAL FIRE FIGHTING INSTRUCTIONS: NO SPECIAL PROCEDURES ARE NECESSARY.
SECTION 5A - EXPOSURE & EFFECTS - INHALATION

ROUTES OF EXPOSURE & EFFECTS - INHALATION: NO EFFECTS EXPECTED WITH INTENDED USE.
FIRST AID - INHALATION: NO TREATMENT IS NECESSARY UNDER ORDINARY CIRCUMSTANCES.

SECTION 5B - EXPOSURE & EFFECTS - SKIN

ROUTES OF EXPOSURE & EFFECTS - SKIN: NO EFFECTS EXPECTED OTHER THAN THOSE INTENDED.
FIRST AID - SKIN: NO TREATMENT IS NECESSARY UNDER ORDINARY CIRCUMSTANCES.

SECTION 5C - EXPOSURE & EFFECTS - EYES

ROUTES OF EXPOSURE & EFFECTS - EYES: DIRECT EYE CONTACT MAY CAUSE IRRITATION.
FIRST AID - EYES: IF EYE CONTACT OCCURS, FLUSH EYES WITH WATER. IF IRRITATION PERSISTS, CONTACT A PHYSICIAN.

SECTION 5D - EXPOSURE & EFFECTS - INGESTION

ROUTES OF EXPOSURE & EFFECTS - INGESTION: INGESTION UNLIKELY TO OCCUR UNDER ORDINARY CIRCUMSTANCES. INGESTION MAY CAUSE SLIGHT NAUSEA.
FIRST AID - INGESTION: IF NAUSEA PERSISTS, CONTACT A PHYSICIAN.

SECTION 5E - GENERAL HEALTH EFFECTS - SYMPTOMS

NONE

SECTION 5F - HEALTH CONDITIONS AGGRAVATED BY EXPOSURE

HEALTH CONDITIONS AGGRAVATED BY EXPOSURE: NONE EXPECTED

SECTION 6 - REACTIVITY & POLYMORPHIZATION

Hazardous Decomposition Products: PLASTIC CONTAINERS MAY EMIT TOXIC FUMES OR VAPORS WHEN BURNED. AVOID INHALATION. POLYPROPYLENE, POLYETHYLENE, AND POLYVINYL CHLORIDE (PVC) ARE OFTEN COMPONENTS OF PLASTIC CONTAINERS. POLYETHYLENE AND POLYPROPYLENE EMIT CARBON MONOXIDE UPON THERMAL DECOMPOSITION. PVC EMITS HYDROGEN CHLORIDES AND CARBON MONOXIDE UPON THERMAL DECOMPOSITION.

Hazardous Polymerization: WILL NOT OCCUR.

Stability: STABLE
MATERIAL SAFETY DATA SHEET

Product: FIRST AID CREAM
CAS Number: NOT ESTABLISHED

SECTION 7 - SPILL, LEAK, & DISPOSAL PROCEDURES

STEPS TO BE TAKEN - SPILLS, LEAKS, OR RELEASE: NO SPECIAL CLEANUP PROCEDURE IS NECESSARY. PROVIDING ADDITIONAL ROOM VENTILATION, SUCH AS OPENING WINDOWS, IS SUGGESTED.

WASTE DISPOSAL METHODS: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THIS MATERIAL IS NOT CONSIDERED A HAZARDOUS WASTE UNDER 40 CFR 261 IDENTIFICATION AND LISTING OF HAZARDOUS WASTE.

SECTION 8 - SPECIAL PROTECTIVE EQUIPMENT

VENTILATION: GENERAL ROOM VENTILATION IS NORMALLY SUFFICIENT.

PROTECTIVE EQUIMENT - EYES: EYE PROTECTION IS NOT REQUIRED.

PROTECTIVE EQUIMENT - GLOVES: GLOVES ARE NOT REQUIRED.

PROTECTIVE EQUIPMENT - RESPIRATORY: RESPIRATORY PROTECTION IS NOT REQUIRED UNDER NORMAL CIRCUMSTANCES.

PROTECTIVE EQUIPMENT - OTHER: OTHER SPECIAL EQUIPMENT IS NOT NECESSARY.

SECTION 9 - SPECIAL PRECAUTIONS - STORAGE & HANDLING

STORAGE & HANDLING CONDITIONS: THIS PRODUCT SHOULD BE STORED AWAY FROM EXTREME HEAT AND SOURCES OF IGNITION.

SECTION 10 - SHIPPING INFORMATION (49 CFR AND HM-201)

NOT CLASSIFIED UNDER DEPARTMENT OF TRANSPORTATION 49 CFR TRANSPORTATION.

SECTION 11 - MISCELLANEOUS

PREPARED BY: Johnson & Johnson Consumer Products, Inc.
Grandeview Road
Skillman, NJ 08558

In New Jersey call 800-226-3667 for information.
This product is not intended for industrial use. This product conforms to applicable regulations.

DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES

Although reasonable care has been taken in the preparation of this document, Johnson & Johnson Consumer Products Inc. extends no warranties and makes no representations as to the accuracy or completeness of the information contained therein, and assumes no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for his/her particular purpose(s).
MATERIAL SAFETY DATA SHEET

Product: JOHNSON & JOHNSON FIRST AID STERILE NON-STICK PADS

CAS Number: NOT ESTABLISHED

SECTION 1 - CHEMICAL IDENTIFICATION

Company: Johnson & Johnson Consumer Products Companies
Grandview Road
Skillman, NJ 08558

Emergency Contact: INFORMATION CENTER
Emergency Phone: 800-828-3287

SECTION 2 - CHEMICAL COMPONENT

Johnson's First Aid Sterile Non-Stick Pads components are not listed by OSHA, NTP, or IARC as carcinogens or potential carcinogens.

Johnson's First Aid Sterile Non-Stick Pads are anodes and therefore not regulated by 29 CFR 1910.1200 Hazcom Communication.

SECTION 3 - PHYSICAL DATA

Solubility: INSOLUBLE IN WATER

Appearance: NOT APPLICABLE

Odor: CHARACTERISTIC ODOR

PH: NOT APPLICABLE

Flash Point: NOT APPLICABLE

Vapor Pressure: NOT APPLICABLE

SECTION 4 - FIRE FIGHTING & EXPLOSION DATA

FIRE AND EXPLOSION HAZARDS: PRODUCT AND PACKAGING MATERIALS MAY BURN IF IGNITED

EXTINGUISHING MEDIA: MEDIA SUITABLE FOR CONSUMER COMMODITY PACKAGING, PRODUCT, AND SURROUNDING FIRE.

SPECIAL FIRE FIGHTING INSTRUCTIONS: NO SPECIAL PROCEDURES ARE NECESSARY.

SECTION 5A - EXPOSURE & EFFECTS - INHALATION

ROUTE OF EXPOSURE & EFFECTS - INHALATION: NONE WITH INTENDED USE.

FIRST AID - INHALATION: NOT APPLICABLE.

SECTION 5B - EXPOSURE & EFFECTS - SKIN

ROUTE OF EXPOSURE & EFFECTS - SKIN: NO EFFECTS EXPECTED.

FIRST AID - SKIN: NO TREATMENT IS NECESSARY UNDER ORDINARY CIRCUMSTANCES.

SECTION 5C - EXPOSURE & EFFECTS - EYES

ROUTE OF EXPOSURE & EFFECTS - EYES: UNLIKELY WITH INTENDED USE. DO NOT APPLY PADS DIRECTLY TO EYE.

FIRST AID - EYES: NONE NEEDED UNDER ORDINARY CIRCUMSTANCES.
SECTION 10 - EXPOSURE & EFFECTS - INGESTION

ROUTE OF EXPOSURE & EFFECTS - INGESTION: UNLIKELY WITH INTENDED USE.

FIRST AID - INGESTION: NOT APPLICABLE.

SECTION 11 - GENERAL HEALTH EFFECTS - CONCERNS

NONE

SECTION 12 - HEALTH CONDITIONS AGGRAVATED BY EXPOSURE

HEALTH CONDITIONS AGGRAVATED BY EXPOSURE: NONE EXPECTED

SECTION 13 - SPATIVITY & DISPOSAL PROPERTIES

Hazardous Decomposition Products:

PRODUCT AND PACKAGING MAY EMIT TOXIC FUMES AND VAPORS WHEN BURNED. AVOID INHALATION. POLYETHYLENE, A COMPONENT OF JOHNSON'S NON-STICK PADS, EMITS CARBON MONOXIDE UPON THERMAL DECOMPOSITION.

Hazardous Polymerization: WILL NOT OCCUR

Stability: STABLE

SECTION 14 - SPILL, LEAK, & DISPOSAL PROCEDURES

STEPS TO BE TAKEN - SPILLS, LEAKS, OR RELEASE: NO SPECIAL CLEANUP PROCEDURE IS NECESSARY FOR UNUSED PRODUCT. USED PRODUCT MAY BE CONSIDERED A BIOWHARD DUE TO THE PRESENCE OF BLOOD ON THE PRODUCT.

WASTE DISPOSAL METHODS: IF SOILED, DISPOSE IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. UNUSED PRODUCT MATERIAL IS NOT CONSIDERED A HAZARDOUS WASTE UNDER 40 CFR 261 - IDENTIFICATION AND LISTING OF HAZARDOUS WASTE.

SECTION 15 - SPECIAL PROTECTIVE EQUIPMENT

VENTILATION: GENERAL ROOM VENTILATION IS нормALLY SUFFICIENT.

PROTECTIVE EQUIMENT - EYES: NO EYE PROTECTION IS REQUIRED.

PROTECTIVE EQUIPMENT - GLOVES: GLOVES ARE NOT REQUIRED.

PROTECTIVE EQUIMENT - RESPIRATORS: NO RESPIRATORY PROTECTION IS REQUIRED UNDER NORMAL CIRCUMSTANCES.

PROTECTIVE EQUIMENT - OTHER: NO OTHER SPECIAL EQUIPMENT IS NECESSARY.

SECTION 16 - SPECIAL PRECAUTIONS - STORAGE & HANDLING

STORAGE & HANDLING CONDITIONS: NO SPECIAL STORAGE OR HANDLING IS NECESSARY.
MATERIAL SAFETY DATA SHEET

Product: JOHNSON & JOHNSON FIRST AID STERILE NON-STICK PADS
CAS Number: NOT ESTABLISHED

SECION 12. SHIPPIING INFORMATION (49 CFR AND 104/181)

NOT CLASSIFIED UNDER DEPARTMENT OF TRANSPORTATION 49 CFR-TRANSPORTATION.

SECTION 15. MISCELLANEOUS COMMENTS

PREPARED BY: Johnson & Johnson Consumer Product Companies
Granview Road
Skillman, NJ 08558

This product is not intended for industrial use. This product conforms to applicable regulations.

DISCLAIMER OF EXPRESS AND IMPLIED WARRANTIES

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Material Safety Data Sheet

Product code: JJCUSBABABPA
Revision date: 06-30-2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier:
Johnson and Johnson Consumer Companies, Inc.
199 Grandview Road
Distributor
Skillman, NJ
08558-9418

Customer service telephone: 1-866-565-2873
Emergency telephone number: For 24-hour emergency assistance, call the 3E Company at 1 (877) 236-9871. Provide the technician with the following product tracking code: 2277.

Product name: BAND AID BRAND® ADHESIVE BANDAGES PLUS ANTIBIOTIC
Synonyms: BAND AID BRAND® ADHESIVE BANDAGES PLUS ANTIBIOTIC WATERPROOF
Product code: JJCUSBABABPA
Identified use: For external use only.

2. HAZARDS IDENTIFICATION

Emergency overview: This product formulation contains no ingredients at their given percentages that are considered hazardous to your health.

Properties affecting health: There are no known properties to affect one's health.

This material is not a controlled product under WHMIS

Principle routes of exposure:
- Eye Contact: No effects expected.
- Skin contact: No effects expected.
- Ingestion: Not Available
- Inhalation: Not Available

Physico-chemical properties: No hazards resulting from the material as supplied

Hazard information:
- Target Organ(s): No significant organ toxicity expected.
- Reproductive effects: No effects expected.
- Mutagenic effects: No effects expected.
- Sensitization: Sensitization is not expected.

Signs and symptoms: None.

Medical conditions aggravated by exposure: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product formulation contains no ingredients at their given percentages that are considered hazardous to your health.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>Synonyms</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Bacitracin</td>
<td>1405-89-6</td>
<td>&lt;1</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Eye contact:**
In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.

**Skin contact:**
In the case of skin irritation or allergic reactions see a physician.

**Ingestion:**
If ingested, seek medical attention immediately and show the label.

**Inhalation:**
Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.

**Protection of first-aiders:**
Wear suitable gloves and eye/face protection.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:**
Use any extinguishing media which is suitable for the surrounding fire.

**Extinguishing media which must not be used for safety reasons:**
None.

**Special protective equipment for firefighters:**
Wear self-contained breathing apparatus for fire fighting if necessary.

**Specific methods:**
None.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**
Ensure adequate ventilation.

**Environmental precautions:**
No special environmental precautions required.

**Methods for cleaning up:**
Wipe up with absorbent material (e.g. cloth, fleece).

7. HANDLING AND STORAGE

**Handling:**
No special technical protective measures required.

**Safe handling advice:**
None under normal processing.

**Storage:**
Store per labeled instructions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
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<th></th>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Zinc Bacitracin</td>
<td>650 µg/m³</td>
<td>Category 1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Engineering controls:**
Ensure adequate ventilation.

**Personal protective equipment**

**Eye protection:**
Eye and face protection recommended when manufacturing product.

**Hand protection:**
Protective gloves recommended when manufacturing product.
Skin and body protection: Wear suitable protective clothing. Wear suitable gloves and eye/face protection.
Respiratory protection: None required.
Other/general protection: None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical state: Solid
Appearance: Adhesive pad coated with antibiotic on the padstock

Important Health Safety and Environmental Information

Flash point: Not determined
pH: Not applicable
Boiling point/range: No information available

Other information

Explosivity: None.

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Materials to avoid: None known
Conditions to avoid: None known.
Hazardous polymerization: Hazardous polymerization does not occur.
11. TOXICOLOGICAL INFORMATION

Acute toxicity
Eye contact Not available.

Skin contact Not available.

Ingestion Not available.

Inhalation Not available.

Sub-Chronic/Chronic Toxicity
No repeat dose data available.

Specific effects
Target Organ(s) No significant organ toxicity expected.
Reproductive effects Not available.
Developmental effects Not available.
Carcinogenic effects Not expected to be carcinogenic.
Genotoxic effects Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Ecotoxicity effects: No data is available on the product itself.
Aquatic toxicity effects: No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate US, Federal, State and International regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: None.

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

15. REGULATORY INFORMATION

Company: Johnson & Johnson
Product code: JJCUSBABABPA
Product name: BAND AID BRAND® ADHESIVE BANDAGES PLUS ANTIBIOTIC
15. REGULATORY INFORMATION

<table>
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<tr>
<th>Components</th>
<th>SARA 313</th>
<th>SARA 302</th>
<th>CERCLA</th>
<th>CEPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Bacitracin (&lt;1%)</td>
<td>Listed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1405-89-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SARA (311, 312) hazard class**
- Immediate health: None.
- Delayed health: None.
- Fire: None.
- Sudden Release of Pressure Hazard: None.
- Reactivity: None.

**State Regulations**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS Number</th>
<th>NJRTK</th>
<th>PARTK</th>
<th>MARTK</th>
<th>RIRTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Bacitracin (&lt;1%)</td>
<td>1405-89-6</td>
<td>Listed</td>
<td>Listed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**International Inventories**

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Bacitracin (&lt;1%)</td>
<td>X</td>
<td>Not listed</td>
<td>Listed</td>
</tr>
</tbody>
</table>

**WHMIS:**
- WHMIS trade secret: None.
- WHMIS hazard class: None.

**Notes:**
1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensations and Liability Act.
4. TSCA = Toxic Substance Control Act.
5. WHMIS = Canadian Workplace Hazardous Materials Information System.
6. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):
None.

**MSDS format:**
- North American Format - U.S. and Canada
- This Material Safety Data Sheet was prepared in accordance with ANSI Z400.1-2004.

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End of Safety Data Sheet
1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Super Sani-Cloth® Germicidal Disposable Wipes</th>
<th>MSDS0020</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS #</td>
<td>Mixture</td>
<td></td>
</tr>
<tr>
<td>Product use</td>
<td>Disinfectant</td>
<td></td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Professional Disposables International, Inc.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two Nice-Pak Park</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Orangeburg, NY 10962-1376</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phone (USA) 1-845-365-1700 (M-F 8am - 5pm)</td>
<td></td>
</tr>
</tbody>
</table>

### LEGEND

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3</td>
<td>0</td>
<td>A</td>
</tr>
</tbody>
</table>

2. Hazards Identification

**Emergency overview**

DANGER

COMBUSTIBLE

Causes irreversible eye damage. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**Potential short term health effects**

- **Routes of exposure**
  - **Eyes**: The product caused irreversible eye damage.
  - **Skin**: Under the conditions of the study, moderate irritation was evident at 72 hours. Harmful if absorbed through skin.

- **Inhalation**: Not a normal route of exposure.

- **Ingestion**: Not a normal route of exposure.

**Target organs**

Eyes. Skin.

**Chronic effects**

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms**

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Benzyl-C12-18-alkyldimethyl ammonium chlorides</td>
<td>68391-01-5</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides</td>
<td>68956-79-6</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**First aid procedures**

- **Eye contact**: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- **Skin contact**: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
- **Inhalation**: Not a normal route of exposure. If symptoms develop move victim to fresh air.
- **Ingestion**: Not a normal route of exposure.
Notes to physician
None.

General advice
Avoid contact with eyes and skin. Keep out of reach of children. Follow label directions carefully.

5. Fire Fighting Measures

Flammable properties
Flammable per ICAO Test Method 1.1.2.1

Extinguishing media
Suitable extinguishing media
Carbon dioxide. Alcohol foam. Dry chemical.

Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters
Specific hazards arising from the chemical
Not available

Protective equipment for firefighters
Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products
May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact
Not available

Sensitivity to static discharge
Not available

6. Accidental Release Measures

Personal precautions
Avoid excessive skin contact.

Methods for containment
Not applicable.

Methods for cleaning up
Pick up towels and discard in trash. Wipe or mop up liquid, if any, and dispose properly.

Other information
Pick up and discard towel.

7. Handling and Storage

Handling
Use good industrial hygiene practices in handling this material.

Storage
Keep out of reach of children. Store in a closed container away from incompatible materials. Do not use or store near heat or open flame.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)          Exposure Limits

Benzyl-C12-18-alkyldimethyl ammonium chlorides ACGIH-TLV
Not established
OSHA-PEL
Not established

Isopropanol          ACGIH-TLV
TWA: 200 ppm
STEL: 400 ppm
OSHA-PEL
TWA: 400 ppm

Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides
ACGIH-TLV
Not established
OSHA-PEL
Not established

Engineering controls
General ventilation normally adequate.

Personal protective equipment

Eye / face protection
Wear gear as deemed necessary. Follow label directions.

Hand protection
Wear as deemed necessary, follow label directions.
Skin and body protection
Follow label directions carefully.
Respiratory protection
If exposure guideline levels are exceeded, use an approved NIOSH respirator.
General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear. Liquid saturated on wipe</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Pre-moistened towelette.</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>pH</td>
<td>6.25 - 8.5 (Liquid)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>75°F (23.9°C)(Towel) (ASTM D56) Tag Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, % by volume</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, upper, % by volume</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.892 (Liquid)</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Wipe is not soluble</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC (Weight %)</td>
<td>&gt; 50 %</td>
</tr>
</tbody>
</table>

10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical stability</td>
<td>Stable under recommended storage conditions.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Avoid high temperatures. Do not mix with other chemicals. Do not use or store near heat or open flame.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Oxidizers. Anionic surfactants.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>May include and are not limited to: Oxides of carbon.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>Hazardous polymerization does not occur.</td>
</tr>
</tbody>
</table>

11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute effects</td>
<td>Acute LD50: 5000 mg/kg, Rat, Oral</td>
</tr>
<tr>
<td></td>
<td>Acute LD50: 2000 mg/kg, Rat, Dermal</td>
</tr>
<tr>
<td>Component analysis - LC50</td>
<td></td>
</tr>
<tr>
<td>Ingredient(s)</td>
<td>LC50</td>
</tr>
<tr>
<td>Benzy1l-C12-18-alkyldimethyl ammonium chlorides</td>
<td>Not available</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>16970 mg/l/4h rat</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-18-alkyl ([ethylphenyl) methyl] dimethyl, chlorides</td>
<td>Not available</td>
</tr>
</tbody>
</table>
**Component analysis - Oral LD50**

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl-C12-18-alkyldimethyl ammonium chlorides</td>
<td>240 mg/kg rat</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>4396 mg/kg rat</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides</td>
<td>250 mg/kg rat</td>
</tr>
</tbody>
</table>

**Effects of acute exposure**

- **Eye**: The product caused irreversible eye damage.
- **Skin**: Under the conditions of the study, moderate irritation was evident at 72 hours. Harmful if absorbed through skin.
- **Inhalation**: Not a normal route of exposure.
- **Ingestion**: Not a normal route of exposure.
- **Sensitization**: Non-hazardous by OSHA criteria.
- **Chronic effects**: Non-hazardous by OSHA criteria.
- **Carcinogenicity**: Non-hazardous by OSHA criteria.

<table>
<thead>
<tr>
<th>ACGIH - Threshold Limit Values - Carcinogens</th>
<th>IARC - Group 3 (Not Classifiable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol 6 7-63-0</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>Isopropanol 67-63-0</td>
<td>Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mutagenicity</th>
<th>Reproductive effects</th>
<th>Teratogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-hazardous by OSHA criteria.</td>
<td>Non-hazardous by OSHA criteria.</td>
<td>Non-hazardous by OSHA criteria.</td>
</tr>
<tr>
<td>Synergistic Materials</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**12. Ecological Information**

- **Ecotoxicity - Freshwater Algae Data**
  - Isopropanol 67-63-0: 96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L

- **Ecotoxicity - Freshwater Fish Species Data**
  - Isopropanol 67-63-0: 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 μg/L

- **Ecotoxicity - Microtox Data**
  - Isopropanol 67-63-0: 5 Min EC50 Photobacterium phosphoreum: 35390 mg/L

- **Ecotoxicity - Water Flea Data**
  - Isopropanol 67-63-0: 48 Hr EC50 Daphnia magna: 13299 mg/L

<table>
<thead>
<tr>
<th>Environmental effects</th>
<th>Aquatic toxicity</th>
<th>Persistence / degradability</th>
<th>Bioaccumulation / accumulation</th>
<th>Partition coefficient</th>
<th>Mobility in environmental media</th>
<th>Chemical fate information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**13. Disposal Considerations**

- **Waste codes**: Not available
- **Disposal instructions**: Consult the appropriate state, regional, or local regulations for additional requirements. Discard after single use.
- **Waste from residues / unused products**: Not available
- **Contaminated packaging**: Not available

**14. Transport Information**

U.S. Department of Transportation (DOT)

CONSUMER COMMODITY ORM-D - Exception H sized packets are not regulated by DOT per small quantity exemption.
15. Regulatory Information

**US Federal regulations**
EPA registration number 9480-4 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List or exempted.

CERCLA/SARA Hazardous Substances - Not applicable.

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**
None

**Occupational Safety and Health Administration (OSHA)**
29 CFR 1910.1200 hazardous chemical Yes

**CERCLA (Superfund) reportable quantity**
None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th>Immediate Hazard</th>
<th>Delayed Hazard</th>
<th>Fire Hazard</th>
<th>Pressure Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Section 302 extremely hazardous substance**
No

**Section 311 hazardous chemical**
Yes

**Clean Air Act (CAA)**
Not available

**Clean Water Act (CWA)**
Not available

**State regulations**
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances**
Isopropanol 67-63-0 Present

**U.S. - Massachusetts - Right To Know List**
Isopropanol 67-63-0 Present

**U.S. - Minnesota - Hazardous Substance List**
Isopropanol 67-63-0 Present

**U.S. - New Jersey - Right to Know Hazardous Substance List**
Isopropanol 67-63-0 Present

**U.S. - Pennsylvania - RTK (Right to Know) List**
Isopropanol 67-63-0 Environmental hazard

**U.S. - Rhode Island - Hazardous Substance List**
Isopropanol 67-63-0 Toxic; Flammable

**Inventory status**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

16. Other Information

**Disclaimer**
Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Recommended use**
For external use only.

**Further information**
Danger: Keep out of reach of children. Not for use on skin. Not a baby wipe. For use on hard surfaces only.

**Issue date**
30-Nov-2009

**Effective date**
15-Jul-2009

**Prepared by**
Nice-Pak Products, Inc.
Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.