Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200

SC Johnson
A FAMILY COMPANY

DISINFECTANT SCRUBBING BUBBLES® BATHROOM CLEANER - FRESH CLEAN SCENT

Version 1.0

Print Date 01/09/2015

Revision Date 05/01/2013

MSDS Number 350000021255

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name	:	DISINFECTANT SCRUBBING BUBBLES® BATHROOM CLEANER - FRESH CLEAN SCENT
Use of the Substance/Mixture	:	Hard Surface Cleaner
Company	:	S.C. Johnson and Son, Limited 1 Webster Street Brantford ON N3T 5R1
Emergency telephone number	:	24 Hour Transport & Medical Emergency Phone (866) 231-5406 24 Hour International Emergency Phone (952) 852-4647 24 Hour Canadian Transport Emergency Phone (CANUTEC) (613) 996-6666

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance / Odor	:	clear Colorless to amber / aerosol / pleasant
Immediate Concerns	:	Caution CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Contents under pressure. Do not puncture or incinerate. Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

Potential Health Effects

Exposure routes	:	Eye, Skin, Inhalation, Ingestion.
Eyes	:	Causes: Moderate eye irritation
Skin	:	Causes moderate skin irritation.
Inhalation	:	No adverse effects expected when used as directed.
Ingestion	:	May cause irritation to mouth, throat and stomach. May cause abdominal discomfort.

Aggravated Medical Condition	:	Persons with pre-existing skin disorders may be more susceptible to irritating effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:

Chemical Name	CAS-No.	Weight percent
Isobutane	75-28-5	5.00 - 10.00
Diethylene glycol monobutyl ether	112-34-5	5.00 - 10.00
Tetrasodium ethylene diamine tetraacetate	64-02-8	1.00 - 5.00
Alkyl dimethyl benzyl ammonium chloride	68424-85-1	0.0001 - 0.10
Decyldimethyloctylammonium chloride	32426-11-2	0.0001 - 0.10
Dimethyldioctylammonium chloride	5538-94-3	0.0001 - 0.10
Didecyldimethylammonium chloride	7173-51-5	0.0001 - 0.10

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Eye contact	:	Remove contact lenses. Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
Skin contact	:	Wash off immediately with plenty of water. Get medical attention if irritation develops and persists. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Inhalation	:	Remove to fresh air. If breathing is affected, get medical attention.
Ingestion	:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during firefighting	:	Aerosol Product - Containers may rocket or explode in heat of fire.
Further information	:	Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.
Flash point	:	< -7 °C < 19.4 °F Note: Propellant
Lower explosion limit	:	Note: no data available
Upper explosion limit	:	Note: no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Remove all sources of ignition. Wear personal protective equipment.
Environmental precautions	:	Outside of normal use, avoid release to the environment.
Methods for cleaning up	:	If damage occurs to aerosol can: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Use only non-sparking equipment. Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	:	Do not puncture or incinerate. Avoid contact with skin, eyes and clothing. Avoid breathing vapours, mist or gas. For personal protection see section 8. Do not spray toward face.

Do not use in areas without adequate ventilation.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers : Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.
Keep in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH TWA
Diethylene glycol monobutyl ether	112-34-5	-	35 ppm	-	SUPPLIER

Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally required.

Hand protection : If prolonged or repeated contact is possible:
Wear suitable gloves.

Eye protection Safety glasses with side-shields

Skin and body protection : No special requirements.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : aerosol

Color : clear Colorless to amber

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Odor	:	pleasant
pH	:	11.8 at 20 °C
Melting point	:	no data available
Boiling point	:	no data available
Freezing point	:	no data available
Flash point	:	< -7 °C < 19.4 °F Propellant
Evapouration rate	:	no data available
Flammability (solid, gas)	:	no data available
Auto-ignition temperature	:	no data available
Lower explosion limit	:	no data available
Upper explosion limit	:	no data available
Vapour pressure	:	no data available
Density	:	1.00 g/cm3 at 20 °CCalculated
Water solubility	:	completely soluble
Partition coefficient: n-octanol/water	:	no data available
Viscosity, dynamic	:	not applicable
Viscosity, kinematic	:	not applicable
Relative vapour density	:	no data available
Volatile Organic Compounds Total VOC (wt. %)*	:	6.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations

10. STABILITY AND REACTIVITY

Conditions to avoid	:	Heat, flames and sparks.

Materials to avoid	:	Strong oxidizing agents Do not mix with bleach or any other household cleaners. Strong bases
Hazardous decomposition products	:	Thermal decomposition can lead to release of irritating gases and vapours.
Thermal decomposition	:	Note: no data available
Hazardous reactions	:	If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 Oral Measured > 5,000 mg/kg
Acute inhalation toxicity	:	Inhalation LC50 Measured > 5.11 mg/l
Acute dermal toxicity	:	LD50 Dermal Measured > 5,000 mg/kg

Chronic effects

Carcinogenicity	:	None Anticipated
Mutagenicity	:	None Anticipated
Reproductive effects	:	None Anticipated
Teratogenicity	:	None Anticipated
Sensitisation	:	Substances is not a sensitizer.

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12. ECOLOGICAL INFORMATION

Ecotoxicity effects : no data available

13. DISPOSAL CONSIDERATIONS

Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.
Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Land transport

- **U.S. DOT and Canadian TDG Surface Transportation:**

Proper shipping name	UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY
Class:	2.1
UN number	1950
Packaging group:	None.

Sea transport

- *IMDG:*

Proper shipping name	UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY
Class:	2
UN number:	1950
Packaging group:	None.
EmS:	F-D, S-U

Air transport

- *ICAO/IATA:*

Proper shipping name	UN 1950 AEROSOLS, Flammable, 2.1, LTD QTY
Class:	2.1
UN/ID No.:	UN 1950
Packaging group:	None.

15. REGULATORY INFORMATION

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Notification status : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

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California Prop. 65 : This product is not subject to the reporting requirements under California's Proposition 65.

16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	4
Reactivity	0

NFPA Ratings

Health	2
Fire	4
Reactivity	0
Special	-

This information is being provided in accordance with Occupational Safety and Health Administration (OSHA) and Canada's Workplace Hazard Material Information System (WHMIS) regulations. The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information
This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by:	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)

COLGATE-PALMOLIVE Company
SAFETY DATA SHEET

SOFTSOAP ANTIBACTERIAL LIQUID HAND SOAP

This industrial Safety Data Sheet provides health and safety information for occupational use only.

Version 1.0 SDS Number: 660000000608 Revision Date: 06/09/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SOFTSOAP ANTIBACTERIAL LIQUID HAND SOAP

Product code : 200000045435

: B02960040001

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

Physical state	liquid
Colour	colourless

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

GHS Label element

Hazard pictograms :

Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H319 Causes serious eye irritation.

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

Chemical Name	CAS-No.	Concentration (%)
CETRIMONIUM CHLORIDE	112-02-7	>= 1 - < 5

GLYCERIN	56-81-5	>= 1 - < 5

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

Components	CAS-No.	Value type	Control parame-	Basis

		(Form of exposure)	ters / Permissible concentration	
GLYCERIN	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0

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:

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:

CETRIMONIUM CHLORIDE:

Acute oral toxicity	:	LD50 (Rat): 450 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 (Rabbit): 429 mg/kg Method: OECD Test Guideline 402

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.

Skin corrosion/irritation

Causes skin irritation.

Components:

CETRIMONIUM CHLORIDE:
Result: Corrosive after 1 to 4 hours of exposure

GLYCERIN:
Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

CETRIMONIUM CHLORIDE:
Result: Irreversible effects on the eye

GLYCERIN:
Remarks: No data available

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

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
HYDROGEN PEROXIDE	7722-84-1	1000	*

*: 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 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.

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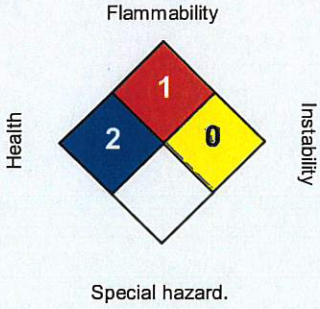
SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

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

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.

MATERIAL SAFETY DATA SHEET

Section 1 – Chemical Product and Company Identification

STATIC GUARD

CATALOG NUMBER: XS-3, XS-6, XS-24

Distributor: ALBERTO-CULVER USA, INC.

Emergency Phone: (708) 450-3175
Business Phone: (708) 450-3000

Name of Preparer: ALBERTO-CULVER USA, INC.
2525 Armitage Avenue
Melrose Park, Illinois 60160

Date Prepared: June 22, 2004
Date Revised:
MSDS ID#: F81111

Shipping Emergencies (CHEMTREC)
Emergency Phones: (800) 424-9300
(703) 527-3887

Section 2 – Composition, Information on Ingredients

Chemical Identity	CAS Numbers	Approx %	Exposure Limits in Air OSHA (PEL)	ACGIH (TLV)	LD50 (oral-rat)*
Ethyl Alcohol	000064-17-5	70-72	1000 ppm	1000 ppm	7060 mg/kg
Ditallowdimonium Chloride	068783-78-8	<2	Not Avail.	Not Avail.	Not Avail.
Propane	000074-98-6	10	1000 ppm	2500 ppm	LC50 (ihl-rat)* Not Available
Isobutane	000075-28-5	17	Not Avail.	Not Avail.	57 pph (%) 15 Min.

The remaining ingredients are not hazardous at the concentrations and combinations used.

*SAX'S, "Dangerous Properties of Industrial Materials", 10th Edition

Section 3- Hazard Identification

Route(s) of Entry Inhalation: X Skin: __ Ingestion: X

Health Hazards Acute: Liquid and vapor may cause moderate to severe eye irritation. Vapors may cause slight irritation to mucous membranes. High vapor concentrations may cause CNS depression. Intentional misuse by deliberately concentrating and inhaling the product can be harmful or fatal.

Chronic: Studies in laboratory animals involving prolonged and repeated exposures to ethyl alcohol have resulted in such effects as liver damage, embryotoxicity, fetotoxicity, and teratogenicity. A transient mutagenic effect has been reported in rats.

Signs and Symptoms of Exposure: CNS depression may be evidenced by giddiness, headache, dizziness and nausea.

Hazardous Material Identification System Ratings (HMIS) - For Total Product - Normal Usage

Rating Scale for Hazard Determination: 0 Minimal 1 Slight 2 Moderate 3 Serious 4 Severe
Product Rating: Health: 1 Flammability: 4 Reactivity: 1
Personal Protection: Do Not Spray Product into eyes

Section 4- First Aid Measures

Eye Contact: Rinse well with plenty of running water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Product is intended to be left on clothing. Soap and water can be used to remove the product from the skin.

Ingestion: If ingestion occurs seek medical attention.

Inhalation: Move victim to fresh air if necessary.

Section 5- Fire-Fighting Measures

Flash Point: 56 Degrees F (Ethyl Alcohol)	Method used: TCC
-156 Degrees F (Propane)	Method used: Unknown
-117 Degrees F (Isobutane)	Method used: CC

Auto Ignition Temperature: 793 Degrees F (Ethyl Alcohol)
842 Degrees F (Propane)
778 Degrees F (Isobutane)

Flammable Limits in Air, % Volume LEL: 3.3% UEL: 19.0% (Ethyl Alcohol)
LEL: 2.3%: UEL 9.5% (Propane)
LEL: 1.8%: UEL 8.4% (Isobutane)

Extinguishing Media: Water Spray; Foam; Carbon Dioxide; Dry Chemical

Special Fire Fighting Procedures: WARNING. FLAMMABLE LIQUID AND GAS. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup, which could result in container explosion and rocketing.

Section 6 – Accidental Release Measures

SMALL SPILLS -- FLAMMABLE LIQUID and GAS. Small spills can be cleaned up with rags, paper towels, inert absorbent or a mop. Rinse cleaning equipment with water before disposal or storage. Contaminated absorbent should be transferred to containers with pressure-relief devices and disposed of properly. Rinse area with water to remove residual product. Beware of slippery floors.

LARGE SPILLS -- FLAMMABLE LIQUID and GAS. ELIMINATE ALL IGNITION SOURCES. Handling equipment must be grounded to prevent sparking. Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for appropriate disposal. Flush area with water to remove trace residue and dispose of flush solutions as below (Section 13 – Disposal Considerations).

Section 7- Handling and Storage

Cool dry storage away from ignition sources at temperatures below 120 DEGREES F. Keep out of reach of children.

Level 2 Aerosol

Section 8 – Exposure Controls and Personal Protection

Specified Respiratory Protection: None required for normal usage
Protective Gloves: None required
Eye Protection: Keep out of eyes – safety glasses recommended
Other Protective Equipment: N/A
Work/Hygienic Practices: N/A
Ventilation required: Normal air circulation is adequate for ordinary usage. Spark proof solvent ventilation may be required if large amounts of product are expelled.

Section 9 – Physical and Chemical Properties

Physical Form: Aerosol Spray Can
Specific Gravity: 0.79-0.80 (Aerosol concentrate)
Vapor Density (air=1): Greater than 1
Evaporation Rate (Ethyl Alcohol = 1) : <1
Water Solubility: Concentrate is water soluble
Melting Point: N/A
pH: (50:50 in water) 6.7-7.3
Appearance: Clear colorless liquid
Odor: Characteristic Perfume
Aerosol can pressure (approx.): 52 psig (70 degrees F); 111 psig (130 degrees F)
Boiling Point: 173-181 Degrees F (Aerosol Concentrate – Ethyl Alcohol)

Section 10 – Stability and Reactivity

Product is stable

Incompatibility (materials to avoid): Materials damaged by ethyl alcohol

Hazardous Decomposition Products: Carbon Monoxide, Nitrogen compounds, Carbon Dioxide, Hydrogen Chloride, and unidentified organic compounds may be formed during combustion.

Hazardous polymerization cannot occur.
Conditions to Avoid: Protect from ignition sources and extreme heat and freezing.

Section 11- Toxicological Information

Carcinogenicity: NTP: No IARC Monographs: No OSHA Registered: No

Medical Conditions Aggravated by Exposure: Prolonged exposure to ethyl alcohol may aggravate preexisting eye, skin and respiratory disorders. Impaired liver function from preexisting disorders may also be aggravated.

Section 12 – Ecological Information

Large quantities should not be discharged into waterways to prevent pollution of the waterways.

EPA- Comprehensive Environmental Response, Compensation and Liability Act. Under EPA-CERCLA ("Superfund") releases to air, land or water may be reportable to the National Response Center, 800-424-8802 (circumstances surrounding the release and cleanup determine reportabilty).

SARA Title II Data - Section 312 Hazard Categories
Fire |X| Sudden Release of Pressure |X| Reactivity | | Immediate (Acute) |X| Delayed (Chronic) | |

Section 13 – Disposal Considerations

Empty containers can be disposed of in the trash or recycled if facilities exist. Contact a licensed waste management company for disposal of a large number of filled containers.

Under EPA-RCRA (40 CFR 261.21), if this product becomes a waste material, it would be ignitable hazardous waste, hazardous waste number D001. Refer to latest Federal EPA or State regulations regarding proper disposal.

Section 14- Transport Information

The following information is presented only as a guideline as shipping regulations frequently change. The shipper is responsible for checking the current regulations.

US SHIPPING (DOT) - Finished Product Labeled for Sale

Hazardous materials descriptions and proper shipping names: Consumer Commodity
Hazard class or Division: ORM-D
Identification Numbers: N/A
Label Codes: None

INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR)

Name and description: AEROSOLS, flammable
UN No.: UN1950
Class: 2
Classification code: 5F
Labels: 2.1
Packages shall be clearly masked as: UN 1950 AEROSOLS
Limited Quantities see LQ2

INTERNATIONAL SHIPPING BY AIR (IATA)

Proper Shipping Name/Description: Aerosols, flammable
Class or Division: 2.1
UN/ID Number: UN1950
Packing Instruction: #203
Hazard Label(s): Flammable gas
Limited Quantities see Packaging Instruction Y203

INTERNATIONAL MARITIME SHIPPING (IMDG)

Proper Shipping Name: AEROSOLS
UN No.: UN1950
Class or Division: 2.1
EmS: F-D, S-U
Limited Quantities see SP277

For shipping to any destination, appropriate packaging materials and labels must be used. If classified as hazardous, see UPS Guide for Shipping Ground and Air Hazardous Materials, IATA Dangerous Goods Regulations (38th Edition), US Dept. of Transportation Regulations in 49 CFR 172. et seq., IMO and ICAO guidelines. If applicable, Parcel to be packed with closures upward and to be marked with package orientation arrows on two opposite vertical sides of the package. The arrows must point in the correct UPRIGHT direction.

Section 15 – Regulatory Information

All ingredients in this product are listed by TSCA.

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.

Section 16 - Other Information

Notice: The information presented herein is based on experimental data submitted by the manufacturers of the raw materials and is considered scientifically correct, however, no warranty, expressly implied or otherwise, is made to the accuracy or suitability of this information to the purchaser's intended purpose or for consequences of its use. Use these materials only as directed. For further information concerning product safety and use, call the number listed on the front of the MSDS.

Sunlight® Liquid Dish - Fresh

Version Number: 2 **Preparation date:** 2018-08-09

1. IDENTIFICATION

Product name:	Sunlight® Liquid Dish - Fresh
Product Code:	95850557, 95922389, 95850506
SDS #:	MS0801028
Recommended use:	• Industrial/Institutional • Hand dishwash • This product is intended to be diluted prior to use
Uses advised against:	Uses other than those identified are not recommended

Manufacturer, importer, supplier:
US Headquarters
Diversey, Inc.
2415 Cascade Pointe Blvd.
Charlotte, NC 28208
Phone: 1-888-352-2249
SDS Internet Address: https://sds.diversey.com

Canadian Headquarters
Diversey Canada, Inc.
3755 Laird Road Units 8-11
Mississauga, Ontario L5L 0B3
Phone: 1-800-668-7171

Emergency telephone number: 1-800-851-7145; 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

Classification for the undiluted product
Serious eye damage/eye irritation Category 2A

Signal Word: **Warning.**

Hazard and Precautionary Statements
CAUSES SERIOUS EYE IRRITATION.
Avoid contact with eyes, skin and clothing. Wash affected areas thoroughly after handling. May cause irritation to mouth, throat and stomach. Wear chemical-splash goggles and chemical-resistant gloves. IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice or attention. Dispose of in accordance with all federal, state and local applicable regulations.

Health hazards not otherwise classified (HHNOC) - Not applicable
Physical hazards not otherwise classified (PHNOC) - Not applicable

Classification for the diluted product @ 1:256
This product, when diluted as stated on the label, is not classified as hazardous according to OSHA 29CFR 1910.1200 (HazCom 2012-GHS) and Canadian Hazardous Products Regulations (HPR) (WHMIS 2015-GHS).

Hazard and Precautionary Statements
None required.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Classified Ingredients

Ingredient(s)	CAS #	Weight %
Sodium dodecylbenzene sulfonate	25155-30-0	20 - 30%
Sodium lauryl ether sulfate	9004-82-4	5 - 10%
Sodium xylene sulfonate	1300-72-7	3 - < 5%
Ethyl alcohol	64-17-5	1 - < 3%
Cocamidopropyl betaine	61789-40-0	1 - < 3%

*Exact percentages are being withheld as trade secret information

4. FIRST AID MEASURES

Undiluted Product:

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin: No specific first aid measures are required.
Inhalation: No specific first aid measures are required.
Ingestion: IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water.

Most Important Symptoms/Effects: No information available.
Immediate medical attention and special treatment needed Not applicable.

Diluted Product:

Eyes: Rinse with plenty of water.
Skin: No specific first aid measures are required
Inhalation: No specific first aid measures are required
Ingestion: IF SWALLOWED: Call a Poison Center (1-800-851-7145) or doctor/physician if you feel unwell.

5. FIRE-FIGHTING MEASURES

Specific methods: No special methods required
Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.
Specific hazards: Not applicable.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Extinguishing media which must not be used for safety reasons: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions and clean-up methods: Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Do not taste or swallow. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.
Storage: Keep tightly closed in a dry, cool and well-ventilated place.
Aerosol Level (if applicable) : Not applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ingredient(s)	CAS #	ACGIH	OSHA
Ethyl alcohol	64-17-5	1000 ppm (STEL)	1000 ppm (TWA) 1900 mg/m^3 (TWA)

Undiluted Product:

Engineering measures to reduce exposure:
Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eye protection:	Chemical-splash goggles.
Hand protection:	Chemical-resistant gloves.
Skin and body protection:	No personal protective equipment required under normal use conditions.
Respiratory protection:	No personal protective equipment required under normal use conditions.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

Diluted Product:

Engineering measures to reduce exposure:
Good general ventilation should be sufficient to control airborne levels.

Eye protection:	No personal protective equipment required under normal use conditions.
Hand protection:	No personal protective equipment required under normal use conditions.
Skin and body protection:	No personal protective equipment required under normal use conditions.
Respiratory protection:	No personal protective equipment required under normal use conditions.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Evaporation Rate: No information available
Odor threshold: No information available.
Melting point/range: Not determined
Autoignition temperature: No information available
Solubility in other solvents: No information available
Density: 9.26 lbs/gal 1.11 Kg/L
Bulk density: No information available
Flash point (°F): > 200 °F > 93.4 °C
Viscosity: No information available
VOC: 1.96 % *
Flammability (Solid or Gas): Not applicable
Sustained combustion: Not applicable
Explosion limits: - upper: Not determined **- lower:** Not determined
@ 1:256 7 > 200 °F > 93.4 °C

Color: Clear Dark Blue
Odor: Floral Woody
Boiling point/range: Not determined
Decomposition temperature: Not determined
Solubility: Completely Soluble
Relative Density (relative to water): 1.11
Vapor density: No information available
Vapor pressure: No information available.
Partition coefficient (n-octanol/water): No information available
Elemental Phosphorus: 0.00 % by wt.
pH: 6.5
Corrosion to metals: Not corrosive

VOC % by wt. at use dilution 0

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Reactivity:	Not Applicable
Stability:	The product is stable
Hazardous decomposition products:	None reasonably foreseeable.
Materials to avoid:	Do not mix with any other product or chemical unless specified in the use directions.
Conditions to avoid:	No information available.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:
Skin contact, Inhalation, Ingestion, Eye contact

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure
Skin contact: Unlikely to be irritant in normal use.
Eye contact: Causes serious eye irritation. Symptoms may include pain, redness, and watering.
Ingestion: May be irritating to mouth, throat and stomach. Symptoms may include stomach pain and nausea.
Inhalation: May be irritating to nose, throat, and respiratory tract. Symptoms may include coughing and difficulty breathing.
Sensitization: No known effects.
Target Organs (SE): None known
Target Organs (RE): None known

Carcinogen Listings: Ethyl alcohol is only classified as an IARC 1 carcinogen and California Prop 65 chemical when it is meant for ingestion in alcoholic beverages. We do not produce alcoholic beverages; therefore it is not considered a carcinogen in our products.

Numerical measures of toxicity

ATE - Oral (mg/kg): 1700

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products (undiluted product): This product, as sold, if discarded or disposed, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

Waste from residues / unused products (diluted product): This product, when diluted as stated on this SDS, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

RCRA Hazard Class (undiluted product): Not Regulated

RCRA Hazard Class (diluted product): Not Regulated

Contaminated Packaging: Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT (Ground) Bill of Lading Description: NOT REGULATED

IMDG (Ocean) Bill of Lading Description: NOT REGULATED

15. REGULATORY INFORMATION

International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

RIGHT TO KNOW (RTK)

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Sodium dodecylbenzene sulfonate	25155-30-0	X	X	X	X
Magnesium sulfate heptahydrate	10034-99-8	-	-	-	-
Sodium lauryl ether sulfate	9004-82-4	-	-	-	-
Sodium xylene sulfonate	1300-72-7	-	-	-	-
Ethyl alcohol	64-17-5	X	X	X	-
Cocamidopropyl betaine	61789-40-0	-	-	-	-

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sodium dodecylbenzene sulfonate	25155-30-0	20 - 30%	1000		

Canadian Regulations

Ingredient(s)	CAS #	NPRI
Ethyl alcohol	64-17-5	X

16. OTHER INFORMATION

NFPA (National Fire Protection Association)
Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

Health 2
Flammability 0
Instability 0

Diluted Product:
Health 0
Flammability 0
Instability 0

Version Number: 2
Preparation date: 2018-08-09

Reason for revision:	Not applicable
Prepared by:	NAPRAC
Additional advice:	• Contains an added fragrance, see "Odor" heading in section 9 for specific description

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