

# Safety Data Sheet

Gone

VISCOSITY: N/D

## SECTION X – STABILITY AND REACTIVITY DATA

**REACTIVITY:** None Known

**CHEMICAL STABILITY:** Stable

**CONDITIONS TO AVOID:** Extremes of hot and cold.

**INCOMPATIBILITY:** Strong oxidizers, Alkalies, Acids

**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** Oxides of carbon

**POSSIBLE HAZARDOUS REACTIONS:** None Known

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** 2-Butoxyethanol (111-76-2) LD<sub>50</sub> (Oral, Rat) 470 mg/kg; LC<sub>50</sub> (Inhalation, Rat, 4hr) 450 ppm; LD<sub>50</sub> (Dermal, Rabbit) 220 mg/kg

**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin

**EYES:** Possible irritation with repeated or prolonged contact.

**INGESTION:** May cause gastrointestinal irritation, nausea.

**INHALATION:** No hazards with normal use. May causes dizziness.

**SKIN:** May cause mild irritation, dryness with prolonged or repeated contact.

**MEDICAL CONDITION AGGRAVATED:** None known

**ACUTE HEALTH HAZARDS:** None Known

**CHRONIC HEALTH HAZARDS:** None known

**CARCINOGENICITY:** OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

## SECTION XII – ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** 2-Butoxyethanol (111-76-2) Toxic to aquatic life only in high concentrations, lethal concentrations not available.

**BIODEGRADABILITY:** Component or components of this product are not biodegradable.

**BIOACCUMULATION:** This product is not expected to bioaccumulate.

**SOIL MOBILITY:** This product is mobile in soil.

**OTHER ECOLOGICAL HAZARDS:** None Known

## SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

**RCRA STATUS:** Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

**PACKAGING GROUP:** N/A

### AIR SHIPMENT

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

### SHIPPING BY WATER:

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Aerosols, Ltd. Qty.

**HAZARD CLASS/DIVISION:** 2.1

**UN/NA NUMBER:** UN 1950

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ENVIRONMENTAL HAZARDS WATER: N/A

## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:** All Chemicals are listed or exempt.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA 311/312 HAZARD CATEGORIES:** None

**SARA 313 REPORTABLE INGREDIENTS:** 2-BUTOXY ETHANOL - 111-76-2;

**CLEAN WATER ACT:** None

**STATE REGULATIONS:** **2 Butoxyethanol 110-76-2:** New Jersey's Worker and community Right to Know Act, Massachusetts' Right to Know Law, Pennsylvania's Right to Know Act

**INTERNATIONAL REGULATIONS:** **2-Butoxyethanol** (111-76-2) Europe (EINECS), Japan (ENCS), Australia (AICS), WHMIS (Canada), DSCL (EEC), NDSL, Korea (ECL), Philippines (PICCS), New Zealand (NZIOC), China (IECS).

**NFPA HEALTH:** 1

**HMIS HEALTH:** 1

**NFPA FLAMMABILITY:** 1

**HMIS FLAMMABILITY:** 1

**NFPA REACTIVITY:** 0

**HMIS REACTIVITY:** 0

**NFPA OTHER:** N/A

**HMIS PROTECTION:** A

## SECTION XVI - ADDITIONAL INFORMATION

**PREPARATION BY:** Jonathon Jarvis

**DATE PREPARED:** 12/20/2013

**REVISION DATE:** 01/08/2015

N/A = Not Applicable; N/D = Not Determined

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability 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 hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

SOD - ASH - 50

**SAFETY DATA SHEET**  
Sodium Carbonate, Anhydrous

SDS #: 497-19-8  
Revision date: 2015-04-30  
Format: NA  
Version 5.01



**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier

Product Name Soda Ash

Other means of identification

Product Code(s) 497-19-8

Synonyms Sodium carbonate, anhydrous; Carbonic acid, disodium salt; Disodium carbonate

Chemical Family Alkali salt

Recommended use of the chemical and restrictions on use

Recommended Use: Glass manufacture , Personal care, Detergent, Water treatment chemical, Chemical processing

Restrictions on Use: See section 16 for more information

Manufacturer Address

Tronox Alkali Wyoming Corporation  
1735 Market Street  
Philadelphia, PA 19103  
Tel: +1 877-362-2248 or +1 215-299-6904  
www.tronox.com

Emergency telephone number

1 307 / 872 2452 (Plant - Green River, WY)  
1 303/ 389-1409 (Medical - U.S. - Call Collect)

For leak, fire, spill or accident emergencies, call:  
1 800 / 424 9300 (CHEMTREC - U.S.A.)  
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

**2. HAZARDS IDENTIFICATION**

Classification

**OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2
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GHS Label elements, including precautionary statements

**EMERGENCY OVERVIEW**

Warning

Hazard Statements  
H319 - Causes serious eye irritation



**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

**Precautionary Statements - 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

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

May be harmful if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Family                      Alkali salt.  
Formula                                    Na<sub>2</sub>CO<sub>3</sub>

Chemical name	CAS-No	Weight %
Sodium carbonate	497-19-8	100

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

**Eye Contact**                                      Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin Contact**                                      Wash off with warm water and soap. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing before re-use.

**Inhalation**    Remove person to fresh air. If signs/symptoms continue, get medical attention.

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**Ingestion**

Never give anything by mouth to an unconscious person Get medical attention if symptoms occur  
Causes serious eye damage / eye irritation.

**Most important symptoms and effects, both acute and delayed**

Treat symptomatically.

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

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing agent suitable for type of surrounding fire.

**Specific Hazards Arising from the Chemical**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes

**Hazardous Combustion Products**

Fumes of sodium oxide. Carbon oxides (COx).

**Explosion data**

Not sensitive.  
Not sensitive.

**Sensitivity to Mechanical Impact**  
**Sensitivity to Static Discharge**

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

**Protective equipment and precautions for firefighters**

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**

Avoid dust formation. Sweep up to prevent slipping hazard.

**Other**

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**Environmental Precautions**

Do not flush into surface water or sanitary sewer system.

**Methods for Containment**

Prevent large quantities of this product from contacting vegetation or waterways. Cover with plastic sheet to prevent spreading. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal. Dispose of waste as indicated in Section 13.

**7. HANDLING AND STORAGE**

**Handling**

Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

**Storage**

Store in original container. Keep in properly labeled containers. Keep container tightly closed.

**Incompatible products**

Aluminium. Powdered aluminum. Acids

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies Local nuisance dust standards apply

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Appropriate engineering controls

Engineering measures

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting safety goggles.

Skin and Body Protection

Wear suitable protective clothing. Protective shoes or boots.

Hand Protection

Nitrile rubber, Neoprene gloves

Respiratory Protection

In case of inadequate ventilation wear respiratory protection.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

General information

These recommendations apply to the product as supplied

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance	Granules
Physical State	Solid
Color	White
Odor	odorless
Odor threshold	Not applicable
pH	11.4 (1% solution in water)
Melting point/freezing point	851 °C
Boiling Point/Range	No information available
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes
Flammability Limit in Air	No information available
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	No information available
Specific gravity	2.52
Water solubility	212.5 g/L @ 20 °C
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	400 °C
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	Not explosive
Oxidizing properties	Non-oxidizing
Molecular weight	105.99
Bulk density	0.86 - 1.12 g/cm <sup>3</sup> (Dense grades) 0.70 - 0.90 g/cm <sup>3</sup> (Light Grades)
K <sub>st</sub>	0 bar m/s

**10. STABILITY AND REACTIVITY**

Reactivity	None under normal use conditions.
Chemical Stability	Stable. Decomposes by reaction with strong acid.
Possibility of Hazardous Reactions	None under normal processing.

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**Hazardous polymerization** Hazardous polymerization does not occur.  
**Conditions to avoid** Exposure to air or moisture over prolonged periods.  
**Incompatible materials** Aluminium. Powdered aluminum. Acids.  
**Hazardous Decomposition Products** Sodium oxides. Carbon oxides (COx).

**11. TOXICOLOGICAL INFORMATION**

Product Information

**LD50 Oral** 2,800 mg/kg (rat)  
**LD50 Dermal** > 2,000 mg/kg (rabbit)  
**LC50 Inhalation** 2.3 mg/L (rat)  
**Eye Contact** Irritating to eyes.  
**Skin Contact** Non-irritating  
**Sensitization** Patch test on human volunteers did not demonstrate sensitization properties.

Information on toxicological effects

**Symptoms** No information available.

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

**Chronic toxicity** No known effect.  
**Mutagenicity** No information available  
**Carcinogenicity** Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).  
**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

**12. ECOLOGICAL INFORMATION**

Ecotoxicity

Sodium carbonate (497-19-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Sodium Carbonate	96 h LC50	Bluegill sunfish	300	mg/L
Sodium Carbonate	48 h EC50	Ceriodaphnia	200-227	mg/L

**Persistence and degradability** Biodegradability does not pertain to inorganic substances.  
**Bioaccumulation** Does not bioaccumulate.  
**Mobility** Dissociates into ions.  
**Other Adverse Effects** None known.

**13. DISPOSAL CONSIDERATIONS**

**Waste disposal methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of in accordance with local regulations.

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**Contaminated Packaging** Dispose of in accordance with local regulations.

**14. TRANSPORT INFORMATION**

**DOT** NOT REGULATED  
**TDG** NOT REGULATED  
**ICAO/IATA** NOT REGULATED  
**IMDG/IMO** 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

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic health hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**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 Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Phillippines)	AICS (Australia)
Sodium carbonate 497-19-8 ( 100 )	X	X	X	X	X	X	X	X

**Mexico - Grade** Moderate risk, Grade 2



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**WHMIS Hazard Class**

D2B - Toxic materials, Eye irritation  
 Class E : Corrosive to aluminum. Not corrosive to animal skin or carbon steel.



D2B - Toxic



E - Corrosive

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Special Hazards</b> -
<b>HMIS</b>	<b>Health Hazards</b> 2	<b>Flammability</b> 0	<b>Physical hazard</b> 0	<b>Personal Protection</b> X
<b>NFPA/HMIS Ratings Legend</b> Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0				

**Product Certifications**

This product meets the chemical testing specifications defined in the Food Chemicals Codex (FCC), 8th Edition.

This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium carbonate, anhydrous is 150 mg/L under NSF/ANSI Standard 60.



Revision date: 2015-04-30  
 Revision note: Minor change

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**Prepared By:**

Tronox Limited

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 End of Safety Data Sheet



# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** CRAZY CLEAN ALL PURPOSE CLEANER

**Other means of identification**

**SDS number:** RE1000008685

**Recommended restrictions**

**Product Use:** Cleaner

**Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information**

**Manufacturer**

**Company Name:** Sprayway, Inc.  
**Address:** 1000 INTEGRAM DR.  
Pacific, MO 63069  
**Telephone:** 1-630-628-3000  
**Fax:**

**Emergency telephone number:** 1-866-836-8855

## 2. Hazard(s) identification

**Hazard Classification**

**Physical Hazards**

Gases under pressure                      Compressed gas

**Health Hazards**

Serious Eye Damage/Eye Irritation      Category 2A

**Environmental Hazards**

Acute hazards to the aquatic environment      Category 2

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Warning



**Hazard Statement:** Contains gas under pressure; may explode if heated.  
Causes serious eye irritation.  
Toxic to aquatic life.

**Precautionary Statements**

**Prevention:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

**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.

**Storage:** Protect from sunlight. Store in a well-ventilated place.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Ethanol, 2-butoxy-	111-76-2	1 - <5%
Alcohols, C9-11, ethoxylated	68439-46-3	1 - <3%
Butane	106-97-8	1 - <5%
Propane	74-98-6	0.1 - <1%

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

### 4. First-aid measures

**Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.



**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

**5. Fire-fighting measures**

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Vapors may travel considerable distance to a source of ignition and flash back.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

**Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

**Notification Procedures:** Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

**Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.



## 7. Handling and storage

**Precautions for safe handling:** Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**Conditions for safe storage, including any incompatibilities:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 1

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Ethanol, 2-butoxy-	TWA	20 ppm	US. ACGIH Threshold Limit Values (2008)
	TWA	25 ppm 120 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 ppm 24 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Butane	REL	50 ppm 240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	REL	800 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (03 2018)
Propane	TWA	800 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	1,000 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Ammonium hydroxide ((NH4)(OH))	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	35 ppm	US. ACGIH Threshold Limit Values (2008)
	TWA	25 ppm	US. ACGIH Threshold Limit Values (2008)
Acetic acid, phenylmethyl ester	STEL	35 ppm 27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	35 ppm 27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	25 ppm 18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Sodium hydroxide (Na(OH))	REL	50 ppm 35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10 ppm	US. ACGIH Threshold Limit Values (2008)
	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values (2008)
Benzene, 1,1'-oxybis- - Vapor.	Ceiling	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Benzene, 1,1'-oxybis- - Vapor.	STEL	2 ppm	US. ACGIH Threshold Limit Values (03 2018)
	TWA	1 ppm	US. ACGIH Threshold Limit Values (03 2018)
	REL	1 ppm 7 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Benzene, 1,1'-oxybis- - Vapor.	REL	1 ppm 7 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)



	TWA	1 ppm	7 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	TWA		10 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- - Inhalable fraction and vapor.	TWA		2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (2008)
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	REL		10 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2005)

**Biological Limit Values**

Chemical Identity	Exposure Limit Values	Source
Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)	200 mg/g (Creatinine in urine)	ACGIH BEL (03 2013)

**Appropriate Engineering Controls** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:** No data available.

**Other:** No data available.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke.

**9. Physical and chemical properties**

**Appearance**

**Physical state:** liquid  
**Form:** Spray Aerosol  
**Color:** No data available.  
**Odor:** No data available.  
**Odor threshold:** No data available.  
**pH:** No data available.  
**Melting point/freezing point:** No data available.



Initial boiling point and boiling range:	No data available.
Flash Point:	-104.44 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	2,757.9029 - 4,136.8543 hPa (20 °C)
Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
<b>Solubility(ies)</b>	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

## 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.



**Ingestion:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Inhalation:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**Ingestion:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** ATEmix: 46,153.85 mg/kg

**Dermal**

**Product:** ATEmix: 17,631.51 mg/kg

**Inhalation**

**Product:** ATEmix: 528.68 mg/l  
ATEmix : 132.17 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**

Ethanol, 2-butoxy- NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal  
Experimental result, Key study  
NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key  
study  
NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation  
Experimental result, Key study  
Alcohols, C9-11, NOAEL (Rat(Female, Male), Oral, 90 d): >= 500 mg/kg Oral Read-across  
ethoxylated based on grouping of substances (category approach), Key study  
Butane LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation  
Experimental result, Key study  
NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation  
Experimental result, Key study  
Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation  
Experimental result, Key study  
LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation  
Experimental result, Key study

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**





Ethanol, 2-butoxy- in vivo (Rabbit): Irritating Experimental result, Key study

Alcohols, C9-11, ethoxylated in vivo (Rabbit): Not irritant Read-across based on grouping of substances (category approach), Weight of Evidence study

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Specified substance(s):**

Ethanol, 2-butoxy- Rabbit, 24 - 72 hrs: Irritating

**Respiratory or Skin Sensitization**

**Product:** No data available.

**Specified substance(s):**

Ethanol, 2-butoxy- Skin sensitization:, in vivo (Guinea pig): Non sensitising

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

Other effects: No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

**Specified substance(s):**

Ethanol, 2-butoxy- LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key study

Alcohols, C9-11, ethoxylated LC 50 (96 h): 0.9 mg/l  
LC 50 (Oncorhynchus mykiss, 96 h): 5 - 7 mg/l Experimental result, Key study

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

##### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s):**

Ethanol, 2-butoxy- EC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study

Alcohols, C9-11, ethoxylated EC 50 (Daphnia magna, 48 h): 2.5 mg/l Experimental result, Key study

Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

**Specified substance(s):**

Ethanol, 2-butoxy- NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study

Alcohols, C9-11, ethoxylated NOAEL (Pimephales promelas): 0.16 mg/l Read-across based on grouping of substances (category approach), Weight of Evidence study

##### Aquatic Invertebrates

**Product:** No data available.

**Specified substance(s):**

Ethanol, 2-butoxy- EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study



	EC 10 (Daphnia magna): 134 mg/l Experimental result, Key study
Alcohols, C9-11, ethoxylated	NOAEL (Daphnia magna): 1.75 mg/l Read-across based on grouping of substances (category approach), Weight of Evidence study
<b>Toxicity to Aquatic Plants Product:</b>	No data available.
<b>Persistence and Degradability</b>	
<b>Biodegradation Product:</b>	No data available.
<b>Specified substance(s):</b> Ethanol, 2-butoxy-	90.4 % Detected in water. Experimental result, Key study
Alcohols, C9-11, ethoxylated	100 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Weight of Evidence study
Butane	100 % (385.5 h) Detected in water. Experimental result, Key study
Propane	100 % (385.5 h) Detected in water. Experimental result, Key study 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
<b>BOD/COD Ratio Product:</b>	No data available.
<b>Bioaccumulative potential</b>	
<b>Bioconcentration Factor (BCF) Product:</b>	No data available.
<b>Specified substance(s):</b> Alcohols, C9-11, ethoxylated	Pimephales promelas, Bioconcentration Factor (BCF): 237 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Key study
<b>Partition Coefficient n-octanol / water (log Kow)</b>	
<b>Product:</b>	No data available.
<b>Specified substance(s):</b> Alcohols, C9-11, ethoxylated	Log Kow: 3.3 - 3.73 Yes QSAR, Weight of Evidence study
<b>Mobility in soil:</b>	No data available.
<b>Known or predicted distribution to environmental compartments</b>	
Ethanol, 2-butoxy-	No data available.
Alcohols, C9-11, ethoxylated	No data available.
Butane	No data available.
Propane	No data available.



**Other adverse effects:** Toxic to aquatic organisms.

### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:** No data available.

### 14. Transport information

#### DOT

UN Number: UN 1950  
UN Proper Shipping Name: Aerosols, non-flammable  
Transport Hazard Class(es)  
Class: 2.2  
Label(s): -  
Packing Group: II  
Marine Pollutant: No  
  
Environmental Hazards: No  
Marine Pollutant: No  
  
Special precautions for user: Not regulated.

#### IMDG

UN Number: UN 1950  
UN Proper Shipping Name: Aerosols, non-flammable  
Transport Hazard Class(es)  
Class: 2  
Label(s): -  
EmS No.: F-D, S-U  
Packing Group: -  
  
Environmental Hazards: No  
Marine Pollutant: Yes  
  
Special precautions for user: Not regulated.

#### IATA

UN Number: UN 1950  
Proper Shipping Name: Aerosols, non-flammable  
Transport Hazard Class(es):  
Class: 2.2  
Label(s): -  
Packing Group: -  
  
Environmental Hazards: No  
Marine Pollutant: Yes



Special precautions for user: Not regulated.  
Cargo aircraft only: Allowed.

## 15. Regulatory information

### US Federal Regulations

Restrictions on use: Not known.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Butane	lbs. 100
Propane	lbs. 100
Ammonium hydroxide ((NH <sub>4</sub> )(OH))	lbs. 1000
Sodium hydroxide (Na(OH))	lbs. 1000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Fire Hazard  
Sudden Release of Pressure  
Immediate (Acute) Health Hazards  
Flammable aerosol  
Gases under pressure  
Serious Eye Damage/Eye Irritation

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethanol, 2-butoxy-	
Butane	lbs. 100
Propane	lbs. 100
Ammonium hydroxide ((NH <sub>4</sub> )(OH))	lbs. 1000
Sodium hydroxide (Na(OH))	lbs. 1000
Cedrene	



**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Ethanol, 2-butoxy-	10000 lbs
Alcohols, C9-11, ethoxylated	10000 lbs
Butane	10000 lbs
Propane	10000 lbs
Ammonium hydroxide ((NH4)(OH))	10000 lbs
Acetic acid, phenylmethyl ester	10000 lbs
Sodium hydroxide (Na(OH))	10000 lbs
Benzene, 1,1'-oxybis-	10000 lbs
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	10000 lbs

**SARA 313 (TRI Reporting)**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Ethanol, 2-butoxy-	N230 lbs	N230 lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

**US State Regulations**

**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

Chemical Identity

Ethanol, 2-butoxy-  
Butane

**US. Massachusetts RTK - Substance List**

Chemical Identity

Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

**US. Pennsylvania RTK - Hazardous Substances**

Chemical Identity

Ethanol, 2-butoxy-  
Butane

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

SDS\_US - RE1000008685



Not applicable

**Kyoto protocol**  
Not applicable

**Inventory Status:**

Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.
Australia AICS:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Ontario Inventory:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

**16. Other information, including date of preparation or last revision**

**Issue Date:** 11/05/2019  
**Revision Information:** No data available.  
**Version #:** 1.1  
**Further Information:** No data available.



**Disclaimer:**

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.





# Safety Data Sheet

## Spartan Chemical Company, Inc.

Revision Date: 14-Aug-2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** STERIPHENE II BRAND DISINFECTANT DEODORANT SPRING BREEZE FRAGRANCE

**Product Number:** 6075

**Recommended Use:** Disinfectant

**Uses Advised Against:** For Industrial and Institutional Use Only

**Manufacturer/Supplier:** Spartan Chemical Company, Inc.  
1110 Spartan Drive  
Maumee, Ohio 43537 USA  
800-537-8990 (Business hours)  
[www.spartanchemical.com](http://www.spartanchemical.com)

**24 Hour Emergency Phone Numbers:**

**Medical Emergency/Information:** 888-314-6171

**Transportation/Spill/Leak:** CHEMTREC 800-424-9300

### 2. HAZARDS IDENTIFICATION

**GHS Classification**

Flammable Aerosols  
Gases Under Pressure

Category 1  
Liquefied gas

**GHS Label Elements**

**Signal Word:**

**Danger**

**Symbols:**



**Hazard Statements:**

Extremely flammable aerosol.  
Contains gas under pressure; may explode if heated

**Precautionary Statements:**

**Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Do not spray on an open flame or other ignition source  
Pressurized container: Do not pierce or burn, even after use  
Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**Response:**

**-Specific Treatment:**

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

**Storage:**

Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C) Store in a well-ventilated place

**Disposal:**

Not Applicable

**Hazards Not Otherwise Classified:** Not Applicable

- Other Information:**
- May be harmful if swallowed.
  - May cause eye irritation.
  - May cause skin irritation.
  - Inhalation of vapors or mist may cause respiratory irritation.
  - Keep out of reach of children.

0.00384% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
ethanol	64-17-5	40-70
water	7732-18-5	10-30
propane	74-98-6	7-13
N-butane	106-97-8	5-10
o-benzyl-p-chlorophenol	120-32-1	<0.1
o-phenylphenol	90-43-7	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Water spray (fog), Foam
- Specific Hazards Arising from the Chemical:** Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protective equipment as required. Remove all sources of ignition.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage 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

- Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash thoroughly after handling.

**Storage Conditions:** NFPA 30B Level 2 Aerosol. Do not store in direct sunlight or above 122 F° / 50 C°. Exposure to high temperature may cause containers to burst. Keep out of the reach of children.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits:** None established.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
propane 74-98-6	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1800 mg/m <sup>3</sup>	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m <sup>3</sup>
N-butane 106-97-8	TWA: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	TWA: 800 ppm TWA: 1900 mg/m <sup>3</sup>

**Engineering Controls:** Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

**Personal Protective Equipment**

**Eye/Face Protection:** Wear splash goggles.  
**Skin and Body Protection:** Wear rubber or other chemical-resistant gloves.  
**Respiratory Protection:** Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance/Physical State:</b>	Aerosol
<b>Color:</b>	Light yellow
<b>Odor:</b>	Floral fragrance
<b>pH:</b>	8.0-9.0
<b>Melting Point / Freezing Point:</b>	No information available.
<b>Boiling Point / Boiling Range:</b>	74 °C / 165 °F (Product without propellant)
<b>Flash Point:</b>	< -18 °C / < 0 °F (Propellant-estimated)
<b>Evaporation Rate:</b>	1.5 (Butyl acetate = 1)
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper Flammability Limit:</b>	No information available.
<b>Lower Flammability Limit:</b>	No information available.
<b>Vapor Pressure:</b>	No information available.
<b>Vapor Density:</b>	No information available.
<b>Specific Gravity:</b>	0.84 (Product without propellant)
<b>Solubility(ies):</b>	Soluble in water
<b>Partition Coefficient:</b>	No information available.
<b>Autoignition Temperature:</b>	No information available.
<b>Decomposition Temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.

**10. STABILITY AND REACTIVITY**

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.  
**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Not expected to occur with normal handling and storage.  
**Conditions to Avoid:** Extremes of temperature and direct sunlight.  
**Incompatible Materials:** Strong oxidizing agents. Strong acids.  
**Hazardous Decomposition Products:** May include carbon monoxide, carbon dioxide (CO<sub>2</sub>) and other toxic gases or vapors.

**11. TOXICOLOGICAL INFORMATION**

**Likely Routes of Exposure:** Eyes, Skin, Ingestion, Inhalation.  
**Symptoms of Exposure:**  
**-Eye Contact:** Pain and redness.  
**-Skin Contact:** Drying of the skin.  
**-Inhalation:** Nasal discomfort and coughing. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.  
**-Ingestion:** Pain, nausea, vomiting and diarrhea. May cause central nervous system depression. May cause drowsiness or dizziness.  
**Immediate, Delayed, Chronic Effects**  
**Product Information:** Data not available or insufficient for classification.  
**Target Organ Effects:** Blood. Central nervous system. -Eyes. Liver. Reproductive System. Respiratory System. -Skin.

**Numerical Measures of Toxicity**  
 The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 9273 mg/kg  
 ATEmix (inhalation-gas): 1576708 mg/l  
 ATEmix (inhalation-dust/mist): 195.1 mg/l

**Component Acute Toxicity Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
ethanol 64-17-5	= 7060 mg/kg ( Rat )	Not Available	= 124.7 mg/L ( Rat ) 4 h
water 7732-18-5	> 90 mL/kg ( Rat )	Not Available	Not Available
propane 74-98-6	Not Available	Not Available	= 658 mg/L ( Rat ) 4 h
N-butane 106-97-8	Not Available	Not Available	= 658 mg/L ( Rat ) 4 h
o-phenylphenol 90-43-7	= 1049 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 0.949 mg/L ( Rat ) 1 h

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
ethanol 64-17-5	Not Available	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	Not Available	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
o-phenylphenol 90-43-7	0.85: 72 h Desmodium subspicatus mg/L EC50	3.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.74: 96 h Lepomis macrochirus mg/L LC50 2.75: 96 h Oncorhynchus mykiss mg/L LC50 5.8: 96 h Poecilia reticulata mg/L LC50 static	Not Available	1 - 2.5: 48 h Daphnia magna mg/L EC50 Static

**Persistence and Degradability:** No information available.  
**Bioaccumulation:** No information available.  
**Other Adverse Effects:** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** Dispose of in accordance with federal, state and local regulations.  
**Contaminated Packaging:** Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

**DOT:**  
**UN/ID No:** UN1950  
**Proper Shipping Name:** Aerosols  
**Hazard Class:** 2.1  
**Special Provisions:** This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity. Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

**IMDG:**  
**UN/ID No:** UN1950  
**Proper Shipping Name:** Aerosols  
**Hazard Class:** 2.1  
**Additional information:** Limited Quantity

### 15. REGULATORY INFORMATION

**TSCA Status:** (Toxic Substance Control Act Section 8(b) Inventory)  
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313**  
This product does not contain listed substances above the "de minimus" level

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard:</b>	Yes
<b>Chronic Health Hazard:</b>	No
<b>Fire Hazard:</b>	Yes
<b>Sudden release of pressure hazard:</b>	No
<b>Reactive Hazard:</b>	No

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

**EPA Pesticide Registration Number:** 5741-22

**EPA Statement:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**EPA Pesticide Label:**

Warning. Causes substantial but temporary eye injury. Harmful if absorbed through the skin. Do not get in eyes or on clothing. Avoid contact with skin. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

### 16. OTHER INFORMATION

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<u>NFPA</u>	Health Hazards: 1	Flammability: 4	Instability: 0	Special: N/A
<u>HMIS</u>	Health Hazards: 1	Flammability: 3	Physical Hazards: 2	

Revision Date: 14-Aug-2015  
Reasons for Revision: Section 11

**Disclaimer:**

The information provided in this Material 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

**Eyes:** Rinse with plenty of water. If irritation occurs and persists, get medical attention.  
**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.

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

## 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:** None known.

**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 eyes. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.  
**Storage:** Keep tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines:**

Ingredient(s)	CAS #	ACGIH	OSHA
Hydrogen peroxide	7722-84-1	1 ppm (TWA)	1 ppm (TWA) 1.4 mg/m <sup>3</sup> (TWA)

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

**Personal Protective Equipment**  
 It is the responsibility of the employer to determine the potential risk of exposure to hazardous chemicals for employees in the workplace in order to determine the necessity, selection, and use of personal protective equipment.

**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. Wear a half face respirator with chemical specific cartridges and N95 filters when an electrostatic sprayer is used.  
**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Liquid	<b>Color:</b> Clear , Clear
<b>Evaporation Rate:</b> No information available	<b>Odor:</b> Cherry Almond Surfactant
<b>Odor threshold:</b> No information available.	<b>Boiling point/range:</b> Not determined
<b>Decomposition temperature:</b> Not determined	<b>Autoignition temperature:</b> No information available
<b>Solubility:</b> Completely Soluble	<b>Solubility in other solvents:</b> No information available
<b>Relative Density (relative to water):</b> 1.01	<b>Density:</b> 1.01 Kg/L
<b>Vapor density:</b> No information available	<b>Bulk density:</b> No information available

**Vapor pressure:** No information available.  
**Partition coefficient (n-octanol/water):** No information available  
**Elemental Phosphorus:** 0.12 % by wt.  
**pH:** ≈ 2.7  
**Corrosion to metals:** Not corrosive to metals  
**Explosion limits: - upper:** Not determined - **lower:** Not determined ≈ 3

**Flash point (°F):** > 200 °F > 93 °C  
**Viscosity:** 1  
**VOC:** 0 % \*  
**Flammability (Solid or Gas):** Not applicable  
**Sustained combustion:** Not applicable

\* - 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:** None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Skin contact, Inhalation, 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:** May be mildly irritating to eyes.

**Ingestion:** No information available.

**Inhalation:** No information available.

**Sensitization:** No known effects.

**Target Organs (SE):** None known

**Target Organs (RE):** None known

### Numerical measures of toxicity

**ATE - Oral (mg/kg):** >5000

**ATE - Dermal (mg/kg):** >5000

**ATE - Inhalatory, mists (mg/l):** >20

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No information available.

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by storage or disposal.

### **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). 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.

### **Pesticide Storage:**

Refer to product label.



**Pesticide Disposal:**  
Refer to product label.

**Container Disposal:**  
Refer to product label.

**RCRA Hazard Class (undiluted product):** Not Regulated.

## 14. TRANSPORT INFORMATION

**DOT/TDG/IMDG:** The information provided below is the full transportation classification for this product. This description does not account for the package size(s) of this product, that may fall under a quantity exception, according to the applicable transportation regulations. When shipping dangerous goods, please consult with your internal, certified hazardous materials specialist to determine if any exceptions can be applied to your shipment.

**DOT (Ground) Bill of Lading Description:** NOT REGULATED

**IMDG (Ocean) Bill of Lading Description:** NOT REGULATED

## 15. REGULATORY INFORMATION

### International Inventories at CAS# Level

TSCA All components are listed or otherwise exempt

### U.S. Regulations

**EPA Reg. No. :** 70627-56

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**ENVIRONMENTAL HAZARDS:** This product is toxic to birds, fish and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk.

### CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Hydrogen peroxide	7722-84-1	> 0.1 - < 1%		1000	

### Canadian Regulations

## 16. OTHER INFORMATION

### NFPA (National Fire Protection Association)

Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

**Health** 0

**Flammability** 0

**Instability** 0

**Special Hazards** -

**Revision:** 2021-05-25

**Version:** 02.0

**Reason for revision:**

Not applicable

**Prepared by:**

North American Regulatory Affairs

**Additional advice:**

• Does not contain an added fragrance

*Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond 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.*

**Oxivir® Tb**

**Virucide, Bactericide, Tuberculocide, Fungicide, Sanitizer**

4 of 4

# SAFETY DATA SHEET



Issuing Date: 05-Oct-2015

Revision Date: 05-Oct-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Dawn Ultra Dishwashing Liquid, Original Scent

**Product ID:** 97591965\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended use** Dish Care

**Restrictions on Use** Use only as directed on label.

**Synonyms** Dawn Ultra Dishwashing Liquid, Pomegranate Awakening (97591967\_RET\_NG)  
Dawn Ultra Dishwashing Liquid, Apple Orchard Harvest (97591968\_RET\_NG)

**Manufacturer** PROCTER & GAMBLE - Fabric and Home Care Division  
Ivorydale Technical Centre  
5289 Spring Grove Avenue  
Cincinnati, Ohio 45217-1087 USA

Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5  
1-800-331-3774

**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:.**

**Hazard Category**

**Eye Damage / Irritation** Category 2B

**Signal Word** WARNING

**Hazard Statements** Causes eye irritation

**Hazard pictograms** None

<b>Precautionary Statements - Prevention</b>	Wash hands thoroughly after handling
<b>Precautionary Statements - Response</b>	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 SWALLOWED: Drink 1 or 2 glasses of water
<b>Precautionary Statements - Storage</b>	None
<b>Precautionary Statements - Disposal</b>	None
<b>Hazards not otherwise classified (HNOC)</b>	None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	No	68585-47-7	15 - 20
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	No	68585-34-2	5 - 10
Amine oxides, C10-16-alkyldimethyl	Amine oxides, C10-16-alkyldimethyl	No	70592-80-2	5 - 10
Ethanol	Ethanol	No	64-17-5	1 - 5

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

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

**Notes to Physician** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special hazard</b>	None known.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

### Methods and materials for containment and cleaning up

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	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

<b>Advice on safe handling</b>	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.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Incompatible products</b>	None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Ethanol	64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m <sup>3</sup>

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWAEV	British Columbia
Ethanol	64-17-5	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	TWA: 1000 ppm TWA: 1880 mg/m <sup>3</sup>	STEL: 1000 ppm	STEL: 1000 ppm

No relevant exposure guidelines for other ingredients

### 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

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
In case of insufficient ventilation wear suitable respiratory equipment

<b>9. PHYSICAL AND CHEMICAL PROPERTIES</b>
--

**Physical State @20°C**  
**Appearance**  
**Odor**  
**Odor threshold**

liquid  
Various color by product  
Scented  
No information available

**Property**

**pH value**  
**Melting/freezing point**  
**Boiling point/boiling range**  
**Flash point**  
**Evaporation rate**  
**Flammability (solid, gas)**  
**Flammability Limits in Air**  
  **Upper flammability limit**  
  **Lower Flammability Limit**  
**Vapor pressure**  
**Vapor density**  
**Relative density**  
**Water solubility**  
**Solubility in other solvents**  
**Partition coefficient: n-octanol/water**  
**Autoignition temperature**  
**Decomposition temperature**

**Values**  
9.0 - 9.2  
No information available  
100 - 104 °C / 212 - 219 °F  
No Flash to Boiling (NFTB)  
No information available  
No information available  
No information available  
No information available  
No information available  
No information available  
1.04  
100%  
No information available  
No information available  
No information available  
No information available

**Note**

10% aqueous solution

**Viscosity of Product** No information available  
**VOC Content (%)** Products comply with US state and federal regulations for VOC content in consumer products.

## 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** 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

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	68585-34-2	>2001 mg/kg	-	-

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

Chemical Name	CAS-No	Hazardous Substances RQs	Extremely Hazardous Substances RQs	CERCLA/SARA 302 TPQ
Sodium hydroxide	1310-73-2	1000 lb	-	

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

Chemical Name	CAS-No	CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
Phenoxyethanol	122-99-6	X

#### **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):

Chemical Name	CAS-No	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1310-73-2	1000 lb	-	-	X

#### **California Proposition 65**

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

#### U.S. State Regulations (RTK)

Chemical Name	CAS-No	New Jersey
Ethanol	64-17-5	X

  

Chemical Name	CAS-No	Massachusetts
Ethanol	64-17-5	X

  

Chemical Name	CAS-No	Pennsylvania
Ethanol	64-17-5	X
Sodium hydroxide	1310-73-2	X
Phenoxyethanol	122-99-6	X

#### 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:** 05-Oct-2015

**Revision Date:** 05-Oct-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





## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

##### Product Name

- **Calcium Hypochlorite Tablets**

##### Synonyms

- 7000; Accu-Tab® SI Calcium Hypochlorite Tablets; Accu-Tab® Wastewater Tablets; Aquabalance Blue SI Calcium Hypochlorite Tablets; Aquaward® Tablets; Bio-Sanitizer; Blue Crystal; C2180T; Ca(OCl)2. Accu-Tab® Blue Calcium Hypochlorite Tablets; Cal Hypo Tablets; Indutabs™; Jet-Chlor; Leslie's Power Pro™ Tabs®; Pittabs™; PML Pool Management Line Calcium Hypochlorite Tablets; Repak™ Tabs; Sanuril® Tablets; Sustain® 3" Chlorinating Tablets; Sustain® Shield Energizer; VersaChlor™ System Chlorinating Tablets

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

- Relevant identified use(s) • Industrial Application, Chlorine Disinfectant, Pool Chemicals

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer

- Axiall, LLC  
1000 Abernathy Rd. NE, Suite 1200  
Atlanta, GA 30328  
United States  
www.axiall.com  
msdsinfo@axiall.com

Telephone (General) • +1 225-685-1240

#### 1.4 Emergency telephone number

- Manufacturer • +1 304-455-6882

### Section 2: Hazards Identification

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]  
According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

##### CLP

- Oxidizing Solids 2 - H272  
Acute Toxicity Oral 4 - H302  
Skin Corrosion 1B - H314  
Hazardous to the aquatic environment Acute 1 - H400

##### DSD/DPD

- Oxidizing (O)  
Corrosive (C)  
Harmful (Xn)  
Dangerous to the Environment (N)  
R8, R22, R31, R34, R50

#### 2.2 Label Elements

##### CLP

**DANGER**



- Hazard statements** • H272 - May intensify fire; oxidizer  
 H302 - Harmful if swallowed  
 H314 - Causes severe skin burns and eye damage.  
 H400 - Very toxic to aquatic life

**Precautionary statements**

- Prevention** • P210 - Keep away from heat.  
 P220 - Keep/Store away from clothing and other combustible materials.  
 P221 - Take any precaution to avoid mixing with combustibles  
 P260 - Do not breathe dust.  
 P264 - Wash thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • P370+P378 - In case of fire: Use appropriate media for extinction.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P363 - Wash contaminated clothing before reuse.  
 P321 - Specific treatment, see supplemental first aid information.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P391 - Collect spillage.

- Storage/Disposal** • P405 - Store locked up.  
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information** • 1-3 percent of this product consists of an ingredient of unknown toxicity.

**DSD/DPD**



- Risk phrases** • R8 - Contact with combustible material may cause fire.  
 R22 - Harmful if swallowed.  
 R31 - Contact with acids liberates toxic gas.  
 R34 - Causes burns.  
 R50 - Very toxic to aquatic organisms.

- Safety phrases** • S36 - Wear suitable protective clothing.  
 S37 - Wear suitable gloves.  
 S39 - Wear eye/face protection.  
 S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 S57 - Use appropriate containment to avoid environmental contamination.

**2.3 Other Hazards**

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD** • According to European Directive 1999/45/EC this material is considered dangerous.

**UN GHS**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

## 2.1 Classification of the substance or mixture

### UN GHS

- Oxidizing Solids 2
- Acute Toxicity Oral 4
- Skin Corrosion 1B
- Serious Eye Damage 1
- Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
- Hazardous to the aquatic environment Acute 1
- Hazardous to the aquatic environment Chronic 1

## 2.2 Label elements

### UN GHS

#### DANGER



- Hazard statements**
- May intensify fire; oxidizer
  - Harmful if swallowed
  - Causes severe skin burns and eye damage.
  - Causes serious eye damage
  - May cause respiratory irritation
  - Very toxic to aquatic life
  - Very toxic to aquatic life with long lasting effects

### Precautionary statements

- Prevention**
- Keep away from heat.
  - Keep/Store away from clothing and other combustible materials.
  - Do not eat, drink or smoke when using this product.
  - Take any precaution to avoid mixing with combustibles
  - Use only outdoors or in a well-ventilated area.
  - Do not breathe dust.
  - Wash thoroughly after handling.
  - Avoid release to the environment.
  - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- In case of fire: Use appropriate media for extinction.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - Call a POISON CENTER or doctor/physician if you feel unwell.
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - Wash contaminated clothing before reuse.
  - Specific treatment, see supplemental first aid information.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - Immediately call a POISON CENTER or doctor/physician.
  - Collect spillage.
- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.
  - Store locked up.
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information**
- 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

### UN GHS

- According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous.

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

OSHA HCS 2012

- Oxidizing Solids 2  
Acute Toxicity Oral 4  
Skin Corrosion 1B  
Serious Eye Damage 1  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

## 2.2 Label elements

OSHA HCS 2012

**DANGER**



- Hazard statements**
- May intensify fire; oxidizer  
Harmful if swallowed  
Causes severe skin burns and eye damage.  
Causes serious eye damage  
May cause respiratory irritation

### Precautionary statements

- Prevention**
- Keep away from heat.  
Keep/Store away from clothing and other combustible materials.  
Take any precaution to avoid mixing with combustibles  
Do not breathe dust.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.

- Response**
- In case of fire: Use appropriate media for extinction.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
Specific treatment, see supplemental first aid information.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor/physician.

- Storage/Disposal**
- Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information**
- 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to: WHMIS

## 2.1 Classification of the substance or mixture

WHMIS

- Oxidizing - C  
Other Toxic Effects - D2B  
Corrosive - E

## 2.2 Label elements

## WHMIS



- Oxidizing - C
- Other Toxic Effects - D2B
- Corrosive - E

## 2.3 Other hazards

## WHMIS

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

## 3.1 Substances

- Material does not meet the criteria of a substance.

## 3.2 Mixtures

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Calcium hypochlorite	CAS:7778-54-3 EC Number:231-908-7 EU Index:017-012-00-7	65% TO 76%	NDA	UN GHS: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit; Aquatic Acute 1; Aquatic Chronic 1 EU DSD/DPD: Annex VI, Table 3.2: O, R8; C, R34; Xn, R22; R31; N, R50 EU CLP: Annex VI, Table 3.1: Ox. Sol. 2, H272; Acute Tox. 4 *, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400 OSHA HCS 2012: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit.
Sodium chloride	CAS:7647-14-5 EC Number:231-598-3	10% TO 30%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	UN GHS: Eye Irrit. 2; Acute Tox. 5 (orl); Skin Irrit. 3; EU DSD/DPD: Xi; R36 EU CLP: Eye Irrit 2, H319 OSHA HCS 2012: Eye Irrit. 2
Calcium hydroxide	CAS:1305-62-0 EC Number:215-137-3	1% TO 3%	Ingestion/Oral-Rat LD50 • 7340 mg/kg	UN GHS: Eye Dam. 1; Skin Corr. 1; EU DSD/DPD: C; R35 Xi; R41; R52-53 EU CLP: Eye Dam. 1 H318; Skin Corr. 1. H314; Aquatic Chronic 3, H412 OSHA HCS 2012: Eye Dam. 1; Skin Corr. 1
Calcium chlorate	CAS:10137-74-3 EINECS:233-378-2	1% TO 3%	NDA	UN GHS: Ox. Sol. 2 EU DSD/DPD: O; R8 EU CLP: Ox. Sol. 2, H272 OSHA HCS 2012: Ox. Sol. 2
Calcium carbonate	CAS:471-34-1 EC Number:207-439-9	1% TO 3%	Ingestion/Oral-Rat LD50 • 6450 mg/kg	UN GHS: Eye Irrit. 2; Skin Irrit. 2 EU DSD/DPD: Xi; R36/38 EU CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319 OSHA HCS 2012: Eye Irrit. 2; Skin Irrit. 2
Pentasodium triphosphate	CAS:7758-29-4 EC Number:231-838-7	< 0.6%	Ingestion/Oral-Rat LD50 • 3120 mg/kg Skin-Rabbit LD50 • >4640 mg/kg	UN GHS: Skin Irrit. 2; Acute Tox. 5 (orl) EU DSD/DPD: Xi, R38 EU CLP: Skin Irrit. 2, H315 OSHA HCS 2012: Skin Irrit. 2
	CAS:7439-95-4 EC Number:231-			UN GHS: Water-react. 1; Pyr. Sol. 1 EU DSD/DPD: Annex VI, Table 3.2: F, R15, R17

Magnesium	104-6 EU Index:012-001-00-3	0.1834%	NDA	EU CLP: Annex VI, Table 3.1: Water-react. 1, H260; Pyr. Sol. 1, H250 OSHA HCS 2012: Water-react. 1; Pyr. Sol. 1
Calcium chloride	CAS:10043-52-4 EC Number:233-140-8 EU Index:017-013-00-2	0.1%	Ingestion/Oral-Rat LD50 • 1 g/kg	UN GHS: Eye Irrit. 2; Acute Tox. 4 (orl); EU DSD/DPD: Annex VI, Table 3.2: Xi, R36 EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319 OSHA HCS 2012: Eye Irrit. 2; Acute Tox. 4 (orl);

See Section 16 for full text of H-statements and R-phrases.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a poison center control center or doctor for further treatment advice.

#### Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Call a poison center or doctor for treatment advice.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a Poison Control Center or doctor for treatment advice.

#### Ingestion

- If swallowed, seek medical attention immediately from poison control center or doctor. Have a person sip a glass of water, if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by the poison control center or doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

- If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during, or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- Probable mucosal damage may contraindicate the use of gastric lavage. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • Drench with large quantities of water only.

#### Unsuitable Extinguishing Media

- Do not use dry chemicals or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective. Product has the potential to cause a violent reaction if dry chemical fire extinguishers are used.

### 5.2 Special hazards arising from the substance or mixture

#### Unusual Fire and Explosion Hazards

- Containers may explode when heated. May explode from heat or contamination. May ignite combustibles (wood, paper, oil, clothing, etc.)  
Runoff may create fire or explosion hazard.

Some will react explosively with hydrocarbons (fuels)  
 These substances will accelerate burning when involved in a fire.  
 Emits toxic fumes under fire conditions.  
 Chlorine gas may be generated.

#### Hazardous Combustion Products

- Decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
 Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.  
 Wear positive pressure self-contained breathing apparatus (SCBA).  
 SMALL FIRES: Move containers from fire area if you can do it without risk.  
 Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
 No action shall be taken involving any personal risk or without suitable training.  
 This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

- Use extreme caution in handling spilled material. Ventilate the area before entry. Use spark-proof tools and explosion-proof equipment. Do not walk through spilled material. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

#### Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

#### Containment/Clean-up Measures

- Avoid generating dust.  
 If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and immediately dissolve material in a water-filled container.  
 Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

### 6.4 Reference to other sections

- Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Use extreme caution in handling spilled material. Use only with adequate ventilation. Keep away from combustible material. Strong oxidizer. Contact with other material may cause fire. Use spark-proof tools and explosion-proof equipment. Do not mix this

product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Always add product to large quantities of water to fully dissolve product. Do not pour water into product, always add product to water. Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not use with stabilized chlorine or bromine tablet chemical feeders. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers retain product residue and can be hazardous. Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage**

- Ventilate enclosed areas. Keep only in the original container. Keep container closed. Separate from acids, alkalis, reducing agents and combustibles. See NFPA 400. Hazardous Materials Code for further information. Store in a cool, dry, well-ventilated place. If product becomes contaminated or decomposes do not reseal container. If possible isolate container in open air or well-ventilated area.

**7.3 Specific end use(s)**

- Refer to Section 1.2 - Relevant identified uses.

**Section 8 - Exposure Controls/Personal Protection**

**8.1 Control parameters**

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Ontario	Canada Quebec	NIOSH
C.I. Pigment Blue 15	TWAs	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>	Not established	Not established	Not established	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>
Calcium chloride (10043-52-4)	TWAs	Not established	Not established	5 mg/m <sup>3</sup> TWA	Not established	Not established
Calcium hydroxide (1305-62-0)	TWAs	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWAEV	5 mg/m <sup>3</sup> TWA
Calcium carbonate (471-34-1)	TWAs	Not established	Not established	Not established	10 mg/m <sup>3</sup> TWAEV (total dust)	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)
Exposure Limits/Guidelines (Con't.)						
	Result	OSHA				
Calcium hydroxide (1305-62-0)	TWAs	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)				

**8.2 Exposure controls**

**Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

**Personal Protective Equipment**



**Respiratory**

- If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Eye/Face**

- Wear chemical splash goggles and face shield.

**Skin/Body**

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. GLOVES: Nitrile, neoprene, and butyl rubber.

**Environmental Exposure Controls**

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

NIOSH = National Institute of Occupational Safety and Health

TWAEV = Time-Weighted Average Exposure Value

OSHA = Occupational Safety and Health Administration

**Section 9 - Physical and Chemical Properties**

**9.1 Information on Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Solid	Appearance/Description	Various colored solid (tablets) with a slight chlorine odor.
Color	Various colors.	Odor	Slight chlorine odor.
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	Decomposes @ 170-180°C (338-356°F)	Melting Point/Freezing Point	No data available
Decomposition Temperature	170 to 180 C(338 to 356 F)	pH	Alkaline
Specific Gravity/Relative Density	No data available	Bulk Density	1 to 1.07 g/cm <sup>3</sup>
Water Solubility	Soluble 100 %	Viscosity	No data available
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	0 %
Volatiles (Vol.)	0 %		
<b>Flammability</b>			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	No data available
Self-Accelerating Decomposition Temperature (SADT)	60 C(140 F)	Flammability (solid, gas)	No data available
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

**9.2 Other Information**

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- The product may not be stable under certain conditions of storage or use. Product decomposes at approximately 170-180°C (338-356°F) releasing oxygen gas and some chlorine gas.

### 10.3 Possibility of hazardous reactions

- Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials, contact with acids/ammonia. Reactions may include the following: risk of causing or intensifying fire, liberation of toxic gas.

### 10.4 Conditions to avoid

- Heating may cause a fire or explosion. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

### 10.5 Incompatible materials

- Highly reactive or incompatible with the following materials: moisture, combustible materials, organic materials, metals, acids, alkalis, oxidizing materials, reducing materials, Ammonia., Petroleum products., Paint products., Wood and paper., Pool chemicals. Acid or ammonia contamination will release toxic gases.

### 10.6 Hazardous decomposition products

- Product slowly releases chlorine gas.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Calcium chloride (0.1%)	10043-52-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1 g/kg
Calcium hydroxide (1% TO 3%)	1305-62-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 7340 mg/kg; <b>Irritation:</b> Eye-Rabbit • 10 mg • Severe irritation
Calcium carbonate (1% TO 3%)	471-34-1	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 6450 mg/kg; <b>Irritation:</b> Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation
Sodium chloride (10% TO 30%)	7647-14-5	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3000 mg/kg; <b>Irritation:</b> Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; <b>Vascular:BP elevation not characterized in autonomic section;</b> <b>Mutagen:</b> Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); <b>Reproductive Effects:Maternal Effects:Postpartum; Reproductive Effects:Effects on Newborn:Biochemical and metabolic</b>
Pentasodium triphosphate (< 0.6%)	7758-29-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3120 mg/kg; <b>Behavioral:Somnolence (general depressed activity); Behavioral:Coma;</b> Skin-Rabbit LD50 • >4640 mg/kg; <b>Behavioral:Somnolence (general depressed activity); Lungs, Thorax, or Respiration:Dyspnea;</b> <b>Irritation:</b> Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation
Calcium hypochlorite (65% TO 76%)	7778-54-3	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 850 mg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Oral 4 - ATEmix (oral)= 1118 mg/kg OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg UN GHS • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg
Aspiration Hazard	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Carcinogenicity	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Germ Cell Mutagenicity	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Skin corrosion/Irritation	EU/CLP • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B UN GHS • Skin Corrosion 1B
Skin sensitization	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
STOT-RE	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
STOT-SE	EU/CLP • No data available OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation UN GHS • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Respiratory sensitization	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Serious eye damage/Irritation	EU/CLP • No data available OSHA HCS 2012 • Serious Eye Damage 1 UN GHS • Serious Eye Damage 1

## Potential Health Effects

### Inhalation

#### Acute (Immediate)

- May cause corrosive burns - irreversible damage. May cause respiratory irritation.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

### Skin

#### Acute (Immediate)

- Causes severe skin burns.

#### Chronic (Delayed)

- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

### Eye

#### Acute (Immediate)

- Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

**Ingestion****Acute (Immediate)**

- Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Key to abbreviations**

LD = Lethal Dose

TD = Toxic Dose

**Section 12 - Ecological Information****12.1 Toxicity**

Calcium Hypochlorite Tablets					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
57-60 µg/L	<b>Fish:</b> Bluegill - <i>Lepomis macrochirus</i>	96 Hour(s)	NDA	Fresh water	Calcium hypochlorite
37 µg/L	<b>Fish:</b> Atlantic silverside - <i>Menidia menidia</i>	96 Hour(s)	LC50	Marine water	Calcium hypochlorite
0.073-0.079 µg/L	<b>Crustacea:</b> Water flea - <i>Daphnia magna</i>	48 Hour(s)	EC50	Fresh water	Calcium hypochlorite
1294600 µg/L	<b>Fish:</b> Bluegill - <i>Lepomis macrochirus</i>	96 Hour(s)	LC50	Fresh water	Sodium chloride
402600-469200 µg/L	<b>Crustacea:</b> Water flea - <i>Daphnia magna</i>	48 Hour(s)	EC50	Fresh water	Sodium chloride
356 mL/kg	<b>Fish:</b> Guppy - <i>Poecilia reticulata</i>	96 Hour(s)	LC50	Marine water	Calcium hydroxide
56 mg/L	<b>Fish:</b> Guppy - <i>Poecilia reticulata</i>	96 Hour(s)	NOEC	Marine water	Calcium hydroxide

- LC50: 0.088 mg/L (96 hr, Bluegill Sunfish) Very toxic to aquatic life. Do not allow to enter groundwater, surface water or drains. Hazardous to the aquatic environment Chronic 1.

**12.2 Persistence and degradability**

- Material data lacking.

**12.3 Bioaccumulative potential**

- Material data lacking.

**12.4 Mobility in Soil**

- Material data lacking.

**12.5 Results of PBT and vPvB assessment**

- No PBT and vPvB assessment has been conducted.

**12.6 Other adverse effects**

- No studies have been found.

**Section 13 - Disposal Considerations****13.1 Waste treatment methods****Product waste**

- The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Spilled material that has been swept up and dissolved in water should be used immediately in the normal

application for which this product is being consumed. If this is not possible, material may be neutralized. Please contact Axiall Corporation Emergency Response team for guidance at 304-455-6882. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Empty containers retain product residue and can be hazardous. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Packaging waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	NDA
TDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	NDA
IMO/IMDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IATA/ICAO	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	NDA

**14.6 Special precautions for user** • None specified.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • Data lacking.

**Section 15 - Regulatory Information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**SARA Hazard Classifications** • Acute, Fire

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Calcium chloride	10043-52-4	Yes	No	Yes	No	Yes
Calcium hydroxide	1305-62-0	Yes	No	Yes	No	Yes
Calcium carbonate	471-34-1	Yes	No	Yes	No	Yes
Calcium chlorate	10137-74-3	No	No	Yes	No	No
Calcium hypochlorite	7778-54-3	Yes	No	Yes	No	Yes
Magnesium	7439-95-4	Yes	No	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes

Pentasodium triphosphate	7758-29-4	Yes	No	Yes	No	Yes
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**Canada**

**Labor**

**Canada - WHMIS - Classifications of Substances**

• Calcium chloride	10043-52-4	D2B
• Calcium hypochlorite	7778-54-3	C, E
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	E
• Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
• Magnesium	7439-95-4	B4, B6
• Calcium carbonate	471-34-1	Uncontrolled product according to WHMIS classification criteria

**Canada - WHMIS - Ingredient Disclosure List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	1 %
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**Environment**

**Canada - CEPA - Priority Substances List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**United States**

**Labor**

**U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

## Environment

### U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

### U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	10 lb final RQ; 4.54 kg final RQ
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

### U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

### U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed

• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**United States - California****Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Developmental Toxicity**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed



• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Magnesium	7439-95-4	Not Listed
• Calcium carbonate	471-34-1	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H250 - Catches fire spontaneously if exposed to air
- H260 - In contact with water releases flammable gases which may ignite

spontaneously  
H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H412 - Harmful to aquatic life with long lasting effects  
R15 - Contact with water liberates extremely flammable gases.  
R17 - Spontaneously flammable in air.  
R35 - Causes severe burns.  
R36 - Irritating to eyes.  
R36/38 - Irritating to eyes and skin.  
R38 - Irritating to skin.  
R41 - Risk of serious damage to eyes.  
R52 - Harmful to aquatic organisms.  
R53 - May cause long-term adverse effects in the aquatic environment.

**Last Revision Date**

- 27/June/2015

**Preparation Date**

- 26/June/2015

**Disclaimer/Statement of Liability**

- The technical data given herein 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. No guarantee is being given as to the end use performance. The product is sold on the basis that buyers test the product for their specific purposes. This information related to the material designated and may not be valid for such material used in combination with any other materials or in any process.

**Key to abbreviations**

NDA = No Data Available

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# SAFETY DATA SHEET

**STAR BRITE  
LAUNDRY  
DETERGENT**

## 1. GENERAL INFORMATION

TRADE NAME (COMMON NAME OR SYNONYM) <b>STAR BRITE LAUNDRY DETERGENT</b>		C.A.S. NO. <b>N/A</b>	
CHEMICAL NAME/DESCRIPTION <b>CITRUS SCENTED POWDERED LAUNDRY DETERGENT</b>			
Emergency telephone number: <b>ChemTel: 1-800-255-3924</b>		Contract Number <b>MIS0003698</b>	
ADDRESS (No., STREET, CITY, STATE, AND ZIP CODE) <b>Royal Custom Products 4844 Almond Dr. Dallas, TX 75247</b>			
CONTACT <b>Bob Vint</b>	PHONE NUMBER <b>214-630-4386</b>	ISSUED DATE <b>2/27/2015</b>	REVISED DATE <b>2/27/2015</b>

## 2. GHS Classification

**Signal Word: DANGER**

**Skin: Category 1 Eyes: Category 1**

**HAZARD STATEMENT:** Causes severe skin and eye damage

**H315 Irritant**



## HAZARD IDENTIFICATION

**HAZARD DATA RATING:** 1 – Health, 3 – Fire, 0 – Reactivity

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

### GHS Hazard Statements

H303: May be harmful if Swallowed  
H313: May be harmful in contact with skin  
H320: Causes eye irritation  
H371: May cause danger to organs

### GHS Precautionary Statements

P102: Keep out of the reach of children  
P103: Read label before use  
P262: Do not get in eyes, on skin or clothing  
P273: Avoid release to the environment  
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P302+P352: IF ON SKIN: Wash with 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+P303: If skin irritation occurs: Get medical advice/attention

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**MATERIAL OR COMPONENT/C.A.S. WT. %**

### CHEMICAL NAME

Sodium Chloride  
Sodium Carbonate  
Zeolite

### CAS #

CAS# 7647-14-5  
CAS# 497-19-8  
CAS# 1318-02-1

### CONCENTRATION (%)

30-60  
10-30  
10-30

**4. FIRST AID MEASURES**

**Eyes:** Hold the eyelids apart and flush the eye gently with large amounts of water for at least 15 minutes.

**Skin:** Flush skin with cool water. Wash the exposed area with plenty of soap and water.

**Inhalation:** Remove individual to fresh air and get immediate medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

**Ingestion:** Have person drink a glass of water immediately if able to swallow. Get medical attention immediately. Do Not INDUCE VOMITING unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**EFFECTS OF OVEREXPOSURE**

**Acute:** Skin: Prolonged contact may defat skin leading to irritation and dermatitis. Eyes: Causes irritation, loss on natural lubrication.

**Chronic:** Skin: repeated or prolonged skin contact would be expected to cause drying, cracking and inflammation of the skin. (dermatitis)

**5. FIRE-FIGHTING MEASURES**

**SPECIAL FIRE HAZARDS:** None

**FIRE FIGHTING METHODS:** Use CO2 Foam or Dry Chemical

**FLASH POINT:** UNK.

**FLAMMABLE LIMITS – LOWER:** UNK      **UPPER:** UNK

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions**

Do not allow contact with soil, surface or ground water.

**Methods and materials for containment and cleaning up**

Stop leak if safe to do so. 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

**7. Handling and Storage****NORMAL HANDLING**

Use smallest amounts possible in designated areas with adequate ventilation. Keep containers closed when not in use. Empty containers may contain hazardous residue. Avoid generating mists. Transfer solutions using equipment which is corrosion resistant. Cautiously transfer into sturdy containers made of compatible materials. Never return contaminated material to its original container. Never add water to solution, always add solution to water and provide agitation.

**STORAGE**

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Protect from damage. Store away from incompatible materials. Avoid freezing.

## 8. Exposure Control/Personal Protective Equipment

**RESPIRATORY PROTECTION:** n/a

**EYES AND FACE:** Splashproof glasses recommended

**HANDS, ARMS AND BODY:** Rubber gloves recommended

**OTHER CLOTHING AND EQUIPMENT:** n/a

## 9. Physical Properties

MATERIAL IS (AT NORMAL CONDITIONS): <b>Granular</b>		APPEARANCE AND ODOR <b>Granular White Mixture with Citrus odor</b>	
BOILING POINT <b>UNK</b>	MELTING POINT <b>NA</b>	SPECIFIC GRAVITY (H <sub>2</sub> O = 1) <b>1.80</b>	VAPOR DENSITY (AIR = 1) <b>0.012</b>
SOLUBILITY IN WATER (% by Weight) <b>100%</b>		pH <b>1% = 12.5 to 13.0</b>	VAPOR PRESSURE (mm Hg at 20°C) <b>N/A</b>
EVAPORATION RATE <input type="checkbox"/> (Butyl Acetate = 1) <input type="checkbox"/> (Ether = 1) <b>&lt;1 (Ether =1)</b>		% VOLATILES BY VOLUME (At 20°C) <b>0</b>	

## 10. Stability & Reactivity

**STABILITY:** Stable      **INCOMPATIBILITY:** None      **HAZARDOUS DECOMPOSITION PRODUCTS:** None

**HAZARDOUS POLYMERIZATION:** None      **CONDITIONS TO AVOID:** None Known

## 11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE: Inhalation, Eye contact, Skin contact

### Potential Health Effects

Eyes: Causes serious eye damage    Skin: Causes sever skin irritation    Ingestion: May be harmful if swallowed

Inhalation: Under normal conditions, vapor level will be too low to present inhalation hazard.

### Experience with human exposure

Eyes: Flush eyes immediately with plenty of cool running water. Remove contact lenses. Continue flushing for 15 minutes holding eye lids open.

Skin: Flush skin with plenty of cool running water. Wash thoroughly with soap and water.

If Swallowed: Rinse mouth; then drink 1 or 2 large glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

If Inhaled: Move immediately to fresh air; If breathing is difficult, admister oxygen.

## 12. Ecological and Aquatic Toxicity

**BIODEGRADABILITY/AQUATIC TOXICITY:** No know Aquatic Toxidity or Ecotoxicological effects.

**OCTANOL/WATER PARTITION COEFFICIENT:** n/a

**EPA HAZARDOUS SUBSTANCE?** No      **IF SO, REPORTABLE QUANITY:**      **40 CFR 116-117**

## 13. Disposal

**WASTE DISPOSAL METHODS (DISPOSER MUST COMPLY WITH FEDERAL, STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS.**

Dispose of waste material at an approved waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of with normal garbage or to sewer systems.

**14. Transportation**

D.O.T. CLASSIFICATION: Not Regulated by D.O.T.

**15. Regulatory**

**EPCRA- Emergency Planing and Community Right-to-Know**

**CERCLA Reportable Quantity:** This material does mnot contain any components with a CERCLA RQ.

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

**SECTION 313 (Specific toxic chemical listings):** None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):** On TSCA Inventory

**16. Other**

	NFPA	HMIS
HEALTH	2	2
FLAMMABILITY	0	0
REACTIVITY	0	0
SPECIAL HAZARDS		
PROTECTIVE EQUIPMENT		

THE DATA PRESENTED HEREIN ARE BELIEVED TO BE ACCURATE BUT ARE IN NO WAY GUARANTEED. Royal Custom Products. ASSUMES NO LIABILITY IN CONNECTION WITH ANY USE FOR THE PRODUCTS DISCUSSED AND IT MAKES NO WARRANTY, EXPRESS OR IMPLIED, IN THAT RESPECT, NOR CAN IT BE ASSUMED THAT ALL SAFETY MEASURES ARE INDICATED HEREIN OR THAT OTHER OR ADDITIONAL MEASURES MAY BE REQUIRED. THE USER, THEREFORE, MUST ASSUME FULL RESPONSIBILITY, BOTH AS TO PERSONS AND AS TO PROPERTY, FOR THE USE OF THESE MATERIALS INCLUDING ANY USE WHICH MIGHT BE COVERED BY PATENT.

**ROYAL CUSTOM PRODUCT CODE(S):** RP-5581



# PUR TABS (Dilution 0.5 ppm - 5550 ppm)

## Safety Data Sheet - Rev: 1

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Date of issue: 28th March 2019

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture - Ready to use  
Trade name : PUR TABS (Dilution 0.5 - 5550 ppm)

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Effervescent NaDCC Tablets are used for drinking water disinfection & surface sanitizing and disinfection

#### 1.3. Supplier

Manufactured for:  
EarthSafe Chemical Alternatives, LLC  
145 Wood Road  
Braintree, MA 02184  
T 866-666-2305  
info@earthsafeca.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300  
USA:

IN THE EVENT OF A MEDICAL EMERGENCY CALL YOUR POISON CONTROL CENTER  
AT 1-800-222-1222  
Have the product container or label with you when calling a poison control center or doctor  
or going for treatment.

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

GHS-US classification  
Not classified

#### 2.2. GHS Label elements, including precautionary statements

GHS-US labelling  
No labelling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product Identifier	%
Troclosene Sodium / 1,3,5 -Triazine - 2,4,6 (1H, 3H,5H) - trione, 1, 3 - dichloro-,sodium salt	(CAS-No.) 2893-78-9	0.00003 - 0.28
Adipic Acid	(CAS-No.) 124-04-9	0.00001 - 0.13
Sodium bicarbonate	(CAS-No.) 144-55-8	0.00001 - 0.12
sodium carbonate	(CAS-No.) 497-19-8	0.000002 - 0.02

# PUR TABS (Dilution 0.5 ppm - 5550 ppm)

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

See section 11.1. Toxicological information

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Material will not burn. : Use a fire fighting agent suitable for the surrounding fire.

#### 5.2. Specific hazards arising from the chemical

- Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.
- Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : For industrial or professional use only. Avoid release to the environment. Avoid contact with oxidizing agents (e.g. chlorine, chromic acid etc.)
- Hygiene measures : Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store away from heat. Store away from oxidizing agents.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Troclosene Sodium / 1,3,5 -Triazine - 2,4,6 (1H, 3H,5H) - trione, 1, 3 - dichloro-,sodium salt (2893-78-9)</b>
Not applicable
<b>Adipic Acid (124-04-9)</b>
Not applicable



# PIUR TABS (Dilution 0.5 ppm - 5550 ppm)

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Sodium bicarbonate (144-55-8)</b>
--------------------------------------

Not applicable
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<b>sodium carbonate (497-19-8)</b>
------------------------------------

Not applicable
----------------

No occupational exposure limit values exist for the components listed.

### 8.2. Appropriate engineering controls

Appropriate engineering controls : No engineering controls required.  
Environmental exposure controls : Avoid release into the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment (PPE)

##### Hand/skin protection:

None required.

##### Eye/face protection:

None required.

##### Respiratory protection:

None required. Inhalation is unlikely route of exposure in this type of products.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aqueous Solution
Color	: Clear
Odor	: Slight chlorine
Odor threshold	: No data available
pH	: No data available
pH solution	: 5.5 - 6.5 For neat form (as supplied)
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: No flash point
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: completely soluble. (100%) in water.
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

# PUR TABS (Dilution 0.5 ppm - 5550 ppm)

## Safety Data Sheet - Rev: 1



according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is generally non-reactive under normal conditions of use, storage and transport, but may reactive with certain agents/certain conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Strong oxidizing agents

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Troclosene Sodium / 1,3,5 -Triazine - 2,4,6 (1H, 3H,5H) - trione, 1, 3 - dichloro-,sodium salt (2893-78-9)</b>	
LD50 oral rat	735 mg/kg bodyweight

<b>Sodium bicarbonate (144-55-8)</b>	
LD50 oral rat	4220 mg/kg bodyweight

<b>sodium carbonate (497-19-8)</b>	
LD50 dermal rat	2210 mg/kg

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

#### 12.2. Persistence and degradability

<b>PUR TABS (Dilution 0.5 - 5550 ppm)</b>	
Persistence and degradability	This material is believed not to persist in the environment. Free available chlorine is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid. This material is subject to hydrolysis. Cyanuric acid produced by hydrolysis is biodegradable.

# PURTABS (Dilution 0.5 ppm - 5550 ppm)

## Safety Data Sheet - Rev: 1



according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.3. Bioaccumulative potential

PUR TABS (Dilution 0.5 - 5550 ppm)	
Bioaccumulative potential	This material hydrolyses in water liberating free available chlorine and cyanuric acid. These products are not bioaccumulative. Bioaccumulation not expected to occur.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Disposal instructions for solution: In appropriate quantities/concentrations (subject to local/national regs.), diluted solutions may be flushed to sanitary sewer.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Not applicable

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### USA:

All the ingredients in this preparation are listed in the EPA TSCA Inventory.

This product is registered under FIFRA - PUR TABS EPA registration number: 71847-6-91524

PLEASE REFER TO EPA MASTER LABEL FOR ADDITIONAL SAFETY AND OTHER INFORMATION ON THE MIXTURE

CERCLA/SARA – 302 ext. haz. substances – This material contains hazardous substance (Adipic Acid) as defined by CERCLA/SARA and the Reportable Quantity is 5000lbs.

SARA (311,312) – This product is categorized as an immediate health hazard, and fire and reactivity physical hazard (Sodium Dichloroisocyanurate)

Massachusetts Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

New Jersey Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

Pennsylvania Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

Rhode Island Right-to-Know Hazardous Substances list – Listed (Adipic Acid, Sodium Dichloroisocyanurate)

Workplace Classification – This product is considered hazardous under the OSHA Hazard Communication

Standard (29CFR 1910.1200) THIS SAFETY DATA SHEET IS FOR READY TO USE SOLUTION.

### 15.2. International regulations

#### Canada:

Canadian Chemical Inventory (DSL) – Listed

WHMIS hazard class –

D2B toxic materials

For Sodium dichloroisocyanurate:

C oxidizing materials

D1B toxic materials

# PUR TABS (Dilution 0.5 ppm - 5550 ppm)

## Safety Data Sheet - Rev: 1



according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

For Sodium Carbonate:  
E corrosive materials

The active substance is also listed in the following chemical inventories:

- Australian Chemical Inventory (AICS) – Listed
- China Chemical Inventory (IECSC) – Listed
- European Union Inventory (EINECS) – Reported
- Japan Chemical Inventory (ENCS) – Listed
- Korean Chemical Inventory (KECI) – Listed
- New Zealand Chemical Inventory (NZIOC) – Listed
- Philippines Priority Chemical List (PICCS) – Listed

The mixture is generally classified and registered as a disinfectant, biocide, or pesticide.

**EU Regulation:** If required for sale in Ireland (country of origin), the mixture is notified to the Pesticide Control Service, Department of Agriculture, Food and the Marine as a biocide under its appropriate trade name.

The product is generally classified as a biocide in the EU, and as such is subject to regulation under EU Regulation No. 528/2012 (Biocidal Products Regulation).

### SECTION 16: Other information

#### NFPA Hazard Classification

Health: 0 Flammability: 0 Instability: 0 Special Hazards: None

#### HMIS Hazard Classification

Health: 0 Flammability: 0 Physical Hazard: 0 Personal Protection: See PPE Section

HAZARD RATINGS / GRADO DE PELIGRO		
HMIS		NFPA
0	FLAMMABILITY	0
0	HEALTH HAZARD	0
0	REACTIVITY	0

SDS US (GHS HazCom 2012) Prop 65 Correction

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

#### REVISION HISTORY:

Revision No. 1 – SDS prepared to cover all in-use dilutions of PUR TABS product  
Supersedes Date: 5/23/18

**DISCLAIMER:** The information on this SDS is believed to be correct as of the date of issue. EarthSafe Chemical Alternatives, LLC makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether this product is fit for a particular purpose and suitable for user's method of use or application.

# SAFETY DATA SHEET



Issuing Date: 19-Mar-2015

Revision Date: 19-Mar-2015

Version 1

## 1. IDENTIFICATION

**Product Name** Tide HE Original Scent

**Product ID:** 97202551\_RET\_NG

**Product Type:** Finished Product - Consumer (Retail) Use Only

**Recommended Use** Laundry Care

**Restrictions on Use** Use only as directed on label.

**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:.**

### Hazard Category

**Acute toxicity - Oral** Category 4  
**Eye Damage / Irritation** Category 2B

**Signal Word** WARNING

**Hazard Statements** Causes eye irritation  
Harmful if swallowed

### Hazard pictograms



**Precautionary Statements -** Wash hands thoroughly after handling

<b>Prevention</b>	Do not eat, drink or smoke when using this product
<b>Precautionary Statements - Response</b>	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 SWALLOWED: Rinse with plenty of water Drink 1 or 2 glasses of water Call a POISON CENTER or doctor/physician if you feel unwell
<b>Precautionary Statements - Storage</b>	None
<b>Precautionary Statements - Disposal</b>	None
<b>Hazards not otherwise classified (HNOC)</b>	None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name	Synonyms	Trade Secret	CAS-No	Weight %
Ethanol, 2-amino-, 2-hydroxy-1,2,3-propanetricarboxylate (1:?)	-	No	17863-38-6	5 - 10
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	-	No	68585-34-2	5 - 10
MEA-Dodecylbenzenesulfonate	-	No	68910-32-7	1 - 5
Ceteareth-7	-	No	68439-49-6	1 - 5
Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	-	No	68081-81-2	1 - 5
2,2'-Oxybisethanol	-	No	111-46-6	1 - 5
Propylene glycol	-	No	57-55-6	1 - 5
Dodecanoic acid, sodium salt (1:1)	-	No	629-25-4	1 - 5
Disodium tetraborate pentahydrate	-	No	12179-04-3	0.1 - 1.0
Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, sodium salt (1:5)	-	No	140-01-2	0.1 - 1.0

### 4. FIRST AID MEASURES

#### First aid measures for different exposure routes

<b>Eye contact</b>	Rinse with plenty of water. Get medical attention immediately if irritation persists.
<b>Skin contact</b>	Rinse with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Most important symptoms/effects, acute and delayed</b>	None under normal use conditions.

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

Notes to Physician                      Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special hazard</b>	None known.
<b>Special protective equipment for fire-fighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific hazards arising from the chemical</b>	None.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Use personal protective equipment. Do not get in eyes, on skin, or on clothing.
<b>Advice for emergency responders</b>	Use personal protective equipment as required.

### Methods and materials for containment and cleaning up

<b>Methods for containment</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	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

<b>Advice on safe handling</b>	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.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Incompatible products</b>	None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	CAS-No	ACGIH TLV	OSHA PEL	Mexico PEL
Disodium tetraborate pentahydrate	12179-04-3	STEL: 6 mg/m <sup>3</sup> inhalable fraction TWA: 2 mg/m <sup>3</sup> inhalable fraction	(vacated) TWA: 10 mg/m <sup>3</sup>	Mexico: TWA 1 mg/m <sup>3</sup>

Chemical Name	CAS-No	Alberta	Quebec	Ontario TWA EV	British Columbia
Propylene glycol	57-55-6			TWA: 10 mg/m <sup>3</sup>	

				TWA: 50 ppm TWA: 155 mg/m <sup>3</sup>	
Disodium tetraborate pentahydrate	12179-04-3	TWA: 1 mg/m <sup>3</sup> STEL: 3 ppm	TWA: 1 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> STEL: 6 mg/m <sup>3</sup>

No relevant exposure guidelines for other ingredients

**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

**Skin and Body Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**  
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**  
In case of insufficient ventilation wear suitable respiratory equipment

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State @20°C  
Appearance  
Odor  
Odor threshold

liquid  
blue  
Floral  
No information available

Property  
pH value  
Melting/freezing point  
Boiling point/boiling range  
Flash point  
Evaporation rate  
Flammability (solid, gas)  
Flammability Limits in Air  
Upper flammability limit  
Lower Flammability Limit

Values  
7.7 - 8.6  
No information available  
No information available  
> 65.5 °C / > 150 °F  
No information available  
No information available  
No information available  
No information available  
No information available

Note  
10% aqueous solution



Vapor pressure No information available  
 Vapor density No information available  
 Relative density 1.0000 - 1.0980  
 Water solubility 100%  
 Solubility in other solvents No information available  
 Partition coefficient: n-octanol/water No information available  
 Autoignition temperature No information available  
 Decomposition temperature No information available  
 Viscosity of Product 100 - 1100 cps

VOC Content (%) Products comply with US state and federal regulations for VOC content in consumer products.

**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 May be harmful if swallowed.  
 Eye contact Irritating to eyes.

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

Acute toxicity May be harmful if swallowed.  
 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

Chemical Name	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-hydroxy-, C10-16-alkyl ethers, sodium salts	68585-34-2	>2001 mg/kg	-	-
Benzenesulfonic acid,	68081-81-2	1090.00 mg/kg (rat)	-	-

mono-C10-16-alkyl derivs., sodium salts				
2,2'-Oxybisethanol	111-46-6	12000.00 mg/kg (rat)	-	-
Propylene glycol	57-55-6	-	-	> 317.042 mg/L (Guideline not indicated; rabbit; 2 h)
Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, sodium salt (1:5)	140-01-2	> 5000 mg/kg bw (Read across data (test substance name not indicated); OECD 401; standard acute method; rat)	> 2000 mg/kg bw (OECD 402 and EU Method B.3; standard acute method; rat)	-

**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.

Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

**U.S. State Regulations (RTK)**

Chemical Name	CAS-No	New Jersey
Propylene glycol	57-55-6	X

Chemical Name	CAS-No	Pennsylvania
2,2'-Oxybisethanol	111-46-6	X
Propylene glycol	57-55-6	X
Ethanol	64-17-5	X
Disodium tetraborate pentahydrate	12179-04-3	X

**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

<b>16. OTHER INFORMATION</b>
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**Issuing Date:** 19-Mar-2015

**Revision Date:** 19-Mar-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

# Safety Data Sheet

## TK60 ONE-STEP HEALTHCARE-GRADE DISINFECTANT

prepared to GHS Standards

### 1. PRODUCT AND COMPANY INFORMATION

<b>Trade name of product:</b>	<b>TK60 Disinfectant</b>
<b>Product use:</b>	One-step healthcare-grade disinfectant
<b>Product dilution information:</b>	Use as is. Do not dilute.
<b>Manufacturer Information</b>	
<b>Name:</b>	<b>R-Water LLC</b>
<b>Address:</b>	2061 Clovis Barker Road 4B, San Marcos, TX, 78666
<b>Business phone:</b>	(512) 808-4100
<b>Email:</b>	info@r-water.com
<b>Website:</b>	www.r-water.com
<b>Date of Issue:</b>	<b>25 Dec 2014</b>
<b>EPA Establishment Number:</b>	91423-TX-1

**FOR EMERGENCY HEALTH INFORMATION CALL AAPCC 1-800-222-1222**

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** This product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under the federal pesticide law. This product is a clear colorless liquid with a slight chlorine odor.

**Health Hazards:** Under normal conditions of intended use this product does not pose a health risk and has been classified by independent testing to be practically non-irritating to the eyes and skin. Prolonged skin contact may cause irritation. Avoid breathing product spray or mist.

**Flammability Hazards:** This product is non-flammable.

**Reactivity Hazards:** Do not mix with products containing ammonia or strong acids as this may release small amounts of chlorine gas.

**Environmental Hazards:** Release of this product is not anticipated to have adverse effects on the environment.

**Potential Acute Health Effects**

<b>Eyes:</b>	May cause slight eye irritation.
<b>Skin:</b>	Prolonged exposure may cause irritation.
<b>Inhalation:</b>	No known significant effects or critical hazards. Avoid breathing spray or mist.
<b>Ingestion:</b>	May cause gastrointestinal irritation.

**See toxicological information (Section 11)**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	% by weight	CAS No.	EC No.
Hypochlorous acid	0.01 - 0.03	7790-92-3	232-232-5
Water	> 99.9	7732-18-5	231-791-2
Sodium chloride	< 0.05	7647-14-5	231-598-3
Sodium hypochlorite	< 0.002	7681-52-9	231-668-3

### 4. FIRST AID MEASURES

<b>Eye contact:</b>	If product enters the eyes, flush eyes with clean water. If irritation occurs, hold eyes open and flush with running water for at least 15 minutes. If irritation persists, call a poison control center or physician for medical advice.
<b>Skin contact:</b>	No special measures. If irritation occurs, rinse exposed skin with clean water. If irritation persists, call a poison control center or physician for medical advice.
<b>Inhalation:</b>	No special measures. If irritation occurs remove exposed person(s) to fresh air. If irritation persists, call a poison control center or physician for medical advice.
<b>Ingestion:</b>	Drink plenty of water. If symptoms occur seek medical advice.

# Safety Data Sheet

## TK60 ONE-STEP HEALTHCARE-GRADE DISINFECTANT

### 5. FIREFIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Use an extinguishing agent suitable for surrounding fire.
<b>Specific Hazards:</b>	This product is not flammable and does not generate hazardous decomposition products.
<b>Special Precautions for Firefighters:</b>	Employ full protective equipment and self-contained breathing apparatus as required.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Use personal protective equipment as required.
<b>Environmental Precautions:</b>	Avoid excessive discharge into soil and waterways.

### 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid eye contact. Avoid prolonged skin contact. Do not ingest. Avoid breathing vapors, spray, or mist. Use only with adequate ventilation.
<b>Storage:</b>	Keep out of reach of children. Store in closed container out of direct sunlight. Product should be stored at room temperature. Do not store above 100° F. Do not freeze.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering Measures:</b>	Use personal protective equipment as required.
<b>Personal Protection</b>	
<b>Eyes:</b>	No protective equipment is required under normal use. Protective eye-wear is recommended.
<b>Hands:</b>	No protective equipment is required under normal use. Impervious, chemical-resistant gloves (latex, nitrile) are recommended.
<b>Skin:</b>	No protective equipment is required under normal use. Avoid prolonged skin contact.
<b>Respiratory:</b>	No special protection is required. Use with adequate ventilation.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Mild Chlorine
<b>pH:</b>	3 - 5
<b>Melting/Freezing Point:</b>	32° F (0° C)
<b>Boiling Point:</b>	212° F (100° C)
<b>Flash Point:</b>	Not applicable
<b>Relative Density</b>	1.0 (water = 1)
<b>Solubility in Water</b>	Completely soluble

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	The product is stable under normal conditions of storage and use.
<b>Incompatible Materials:</b>	Strong acids. Ammonia and products which contain ammonia.
<b>Hazardous Decomposition Products:</b>	Under normal conditions, hazardous decomposition products should not be produced.
<b>Hazardous Polymerization:</b>	Under normal conditions, hazardous polymerization should not occur.

# Safety Data Sheet

## TK60 ONE-STEP HEALTHCARE-GRADE DISINFECTANT

### 11. TOXICOLOGICAL INFORMATION

No known significant effects or critical hazards.

### 12. ECOLOGICAL INFORMATION

At the produced concentration, this product and its products of degradation are not considered harmful to the environment or aquatic life and will not persist for an environmentally relevant period of time.

### 13. DISPOSAL CONSIDERATIONS

This product can be flushed to sanitary sewer. Empty containers should be re-used or discarded in trash.

### 14. TRANSPORT INFORMATION

Product should be generated on-site and is not intended for transport.

### 15. REGULATORY INFORMATION

R-Water systems for on-site product generation are considered by the U.S. Environmental Protection Agency (USEPA) to be a pesticide device and are subject to the requirements specified in 40 CFR 152.500. R-Water LLC is a registered USEPA establishment. USEPA Est. No. 91423-TX-1.

### 16. OTHER INFORMATION

**National Fire Protection Association (USA) Rating**



*The information provided in this document is compiled from sources considered to be accurate and reliable. The information relates to the specific material designated herein, and does not relate to its use in combination with any other material or process. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations pertaining to the use of this product. No warranty, express or implied, is made as to the completeness or continuing accuracy of this information.*