



# SAFETY DATA SHEET

Issuing Date 28-Jan-2014

Revision Date 16-Jun-2016

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### GHS product identifier

**Product Name** Hi Lite

### Other means of identification

**Product Code(s)** 6280

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Aluminum Safe Dishwasher Detergent

**Uses advised against** No information available

### Supplier's details

**Supplier Address**  
Sunburst Chemicals, Inc.  
220 W. 86th St.  
Bloomington, MN 55420  
TEL: 952-884-3144

**Emergency Telephone Number** 1-866-303-6943

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

### **PRODUCT AS SOLD**

Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1A
Serious Eye Damage/Eye Irritation	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3

### **PRODUCT AT USE DILUTION**

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

### GHS Label elements, including precautionary statements

#### Emergency Overview

### **PRODUCT AS SOLD**

<b>Signal Word</b>	<b>Danger</b>
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**Hazard Statements**

- Harmful if swallowed
- Harmful in contact with skin
- Causes severe skin burns and eye damage
- May cause respiratory irritation



**Appearance** Off white

**Physical State** Granular

**Odor** Low Chlorine

**Precautionary Statements**

**Prevention**

- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray

**General Advice**

- Immediately call a POISON CENTER or doctor/physician

**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

**Skin**

- Call a POISON CENTER or doctor/physician if you feel unwell
- Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water

**Inhalation**

- 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

**Ingestion**

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Do NOT induce vomiting

**Storage**

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

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Harmful to aquatic life

<b>PRODUCT AT USE DILUTION</b>	
<b>Signal Word</b>	<b>Danger</b>

**Hazard Statements**

- Harmful if swallowed
- Harmful in contact with skin
- Causes severe skin burns and eye damage
- May cause respiratory irritation



**Appearance** Colorless **Physical State** Liquid **Odor** None

**Precautionary Statements**

**Prevention**

- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray

**General Advice**

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**Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
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- 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

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- Rinse mouth
- Do NOT induce vomiting

**Storage**

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

**Disposal**

- Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**PRODUCT AS SOLD**

Chemical Name	CAS-No	Weight %	Trade secret
Sodium carbonate	497-19-8	20 - 40	*
Sodium metasilicate	6834-92-0	20 - 40	*
Sodium Tripolyphosphate Hexahydrate	15091-98-2	20 - 40	*
Sodium dichloroisocyanurate	2893-78-9	1 - 5	*

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

**PRODUCT AT USE DILUTION**

Contains ingredients listed above at weight % less than 0.5%

**4. FIRST AID MEASURES****PRODUCT AS SOLD****Description of necessary first-aid measures**

<b>General Advice</b>	Immediate medical attention is required.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Seek immediate medical attention/advice.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed****Most Important Symptoms/Effects** No information available.**Indication of immediate medical attention and special treatment needed, if necessary****Notes to Physician** Treat symptomatically.**PRODUCT AT USE DILUTION**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eye lids, for at least 15 minutes. Seek immediate medical attention / advice.
<b>Skin Contact</b>	Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induct vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical.**Unsuitable Extinguishing Media** None**Specific Hazards Arising from the Chemical**

None in particular

**Hazardous Combustion Products** None.**Explosion Data**

<b>Sensitivity to Mechanical Impact</b>	None
<b>Sensitivity to Static Discharge</b>	None

**Protective Equipment and Precautions for Firefighters**

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

**6. ACCIDENTAL RELEASE MEASURES**

**PRODUCT AS SOLD**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions**

**Environmental Precautions** Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological Information Dispose of contents/container to an approved waste disposal plant. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

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

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

**Methods for Cleaning Up** Absorb spilled material with an absorbent material such as clay, sawdust, or sand. Sweep up and shovel into suitable containers for disposal. After complete clean up by sweeping, area may be washed with large amounts of water if necessary

<b>PRODUCT AT USE DILUTION</b>	
<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Do not breathe spray mist. Ensure adequate ventilation. Use personal protective equipment. Solution can cause surfaces to become slippery.
<b>Environmental Precautions</b>	Avoid release to the environment. Rinse or mop up use solutions. Solutions may be flushed down sanitary sewer drains.
<b><u>Methods and materials for containment and cleaning up</u></b>	
<b>Methods for Containment</b>	Prevent solutions from spillage.
<b>Methods for Cleaning Up</b>	Flush area with water.

**7. HANDLING AND STORAGE**

**PRODUCT AS SOLD**

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product.

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

**Storage** Keep container tightly closed. Keep container closed when not in use.

**Incompatible Products** None

<b>PRODUCT AT USE DILUTION</b>	
<b>Advice on safe handling</b>	Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe mist. Use only with adequate ventilation. Wash hands thoroughly after handling.
<b>Conditions for safe storage</b>	Keep out of reach of children. Store in suitable labeled containers.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

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

#### Appropriate engineering controls

**Engineering Measures** Eyewash stations  
Ventilation systems

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

**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Rubber gloves. Rubber apron.  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

**Hygiene Measures** Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PRODUCT AS SOLD

#### Information on basic physical and chemical properties

**Physical State** Granular  
**Odor** Low Chlorine  
**Appearance** Off white  
**Odor Threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Values for Product at Use Dilution</u>
pH	NA	10.5 – 11.5
Melting Point/Range	60 °C / 140 °F	
Boiling Point/Boiling Range	No data available	
Flash Point	No data available	Physical State – Liquid
Evaporation rate	No data available	Odor – None
Flammability (solid, gas)	No data available	Appearance - Colorless
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Specific Gravity	No data available	
Water Solubility	No data available	
Solubility in other solvents	No data available	
Partition coefficient: n-octanol/water	No data available	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Viscosity	No data available	

**Flammable Properties** Not flammable

**Explosive Properties** No data available  
**Oxidizing Properties** Oxidizer

#### Other information

**VOC Content (%)** 0%

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

None known.

**Incompatible materials**

None

**Hazardous decomposition products**

None under normal use.

## 11. TOXICOLOGICAL INFORMATION

**PRODUCT AS SOLD****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Harmful by inhalation.
<b>Eye Contact</b>	Eye contact with corrosive substances can cause eye burns.
<b>Skin Contact</b>	Harmful in contact with skin. Skin contact with corrosive substances can cause skin burns.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### PRODUCT AT USE DILUTION

<b>Inhalation</b>	Harmful by inhalation.
<b>Eye Contact</b>	Eye contact with corrosive substances can cause eye burns.
<b>Skin Contact</b>	Harmful in contact with skin. Skin contact with corrosive substances can cause skin burns.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium carbonate	= 4090 mg/kg ( Rat )	-	-
Pentasodium triphosphate	= 4640 mg/kg ( Rat )	-	-
Sodium dichloroisocyanurate	= 735 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit )	= 50 mg/L (Rat 1h)

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

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no carcinogenic ingredients.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity • - Product**

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

<b>LD50 Oral</b>	No information available.
<b>LD50 Dermal</b>	No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium carbonate	-	LC50 96 h: = 300-320 mg/L (Bluegill Sunfish)	-	EC50 48h: = 265 mg/L (Daphnia magna)
Sodium metasilicate	-	LC50 96 h: = 2320 mg/L static (Gambusia affinis)	-	EC50 48h: = 247 mg/L (Daphnia magna)
Sodium dichloroisocyanurate	-	LC50 96 h: = 1.0 mg/L (Bluegill Sunfish)	-	EC50 48h: = 0196 mg/L

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

**Other Adverse Effects**  
 No information available.

**13. DISPOSAL CONSIDERATIONS**

**PRODUCT AS SOLD**

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

Chemical Name	California Hazardous Waste
Sodium dichloroisocyanurate	Ignitable

**PRODUCT AT USE DILUTION**  
 Dispose of in accordance of the federal, state, local regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies  
**DSL** Complies  
**ENCS** Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**ENCS** - European Existing and New Chemical Substances

**U.S. Federal Regulations**

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 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	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Pentasodium triphosphate	5000lb			X

**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	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Pentasodium triphosphate	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Sodium dichloroisocyanurate	X		X		X
Pentasodium triphosphate		X	X		

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
<b>HMIS</b>	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal Protection B

Prepared By Sunburst Chemicals  
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Bloomington, MN 55420  
952-884-3144

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**General Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**