

# SAFETY DATA SHEET

Issuing Date 28-Oct-2014

Revision Date 14-Sep-2015

**Revision Number** 1

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

GHS product identifier	
Product Name	Sentinel
Other means of identification	
Product Code(s)	5160
Synonyms	None
Recommended use of the chemical and re	estrictions on use
Recommended Use	Sanitizer
Uses advised against	No information available
Supplier's details	
<b>Supplier Address</b> Sunburst Chemicals, Inc. 220 W. 86th St. Bloomington, MN 55420 TEL: 952-884-3144	
Emergency telephone number	
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 Toxicity Oral and Skin	Category 3
Skin Corrosion/Irritation	Category 1B
Serious Eye Damage/Eye Irritation	Category 1

## **PRODUCT AT USE DILUTION**

Acute Toxicity Oral

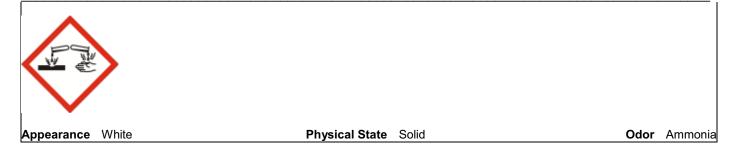
Category 4

GHS Label elements, including precautionary statements

**Emergency Overview** 

## **PRODUCT AS SOLD**

Signal Word Danger Hazard Statements Harmful if in contact with skin or if swallowed. Causes severe skin burns and eye damage



### **Precautionary Statements**

### Prevention

- Wear protective gloves / protective clothing / eye protection / face protection
- · Wash face, hands, and any exposed skin thoroughly after handling

#### **General Advice**

• IF exposed or concerned: Get medical attention/advice

### Eyes

• IF IN EYES: Rinse cautiously with water for 15-20 minutes. Remove contact lenses, if present after 5 minutes. Continue rinsing eyes

• Immediately call a POISON CENTER or doctor/physician.

#### Skin

- IF ON SKIN: Wash with plenty of soap and water, rinse with water for 15 minutes
- Take off contaminated clothing and wash before reuse
- · If skin irritation occurs: Get medical advice/attention
- Call a POISON CENTER or a doctor/physician if you feel unwell

#### Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician immediately for treatment/advice.
- Rinse mouth
- · Have 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 so by a physician.

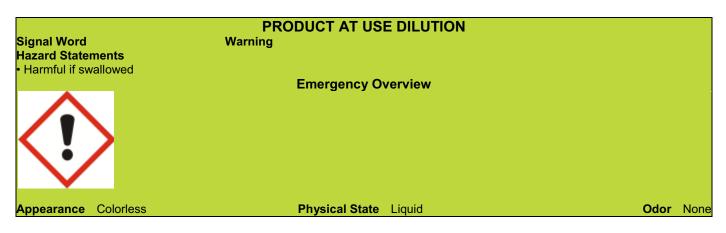
### Storage

Store locked up

### Disposal

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

### GHS Label elements, including precautionary statements



#### **Precautionary Statements**

#### Prevention

- · Wear protective gloves / protective clothing / eye protection / face protection
- · Wash face, hands and exposed skin thoroughly after handling.

#### **General Advice**

• IF exposed or concerned: Get medical attention/advice

#### Eyes

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

• If eye irritation persists: get medical advice / attention.

### Skin

- IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
- · Wash contaminated clothing before reuse
- If skin irritation occurs: Get medical advice / attention

#### 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.

### Fire

• In case of fire: Use CO2, dry chemical, or foam for extinction.

### Storage

• Store locked up. Keep out of reach of children.

### Disposal

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

### Hazard Not Otherwise Classified (HNOC)

### Other information

No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

## **PRODUCT AS SOLD**

Chemical Name	CAS-No	Weight %	Trade secret
Quaternary ammonium compounds, C12-14-	85409-23-0	19 – 21%	*
alkyl[(ethylphenyl)methyl]dimethyl, chlorides			
Alkylbenzyldimethylammonium chloride	68391-01-5	19 – 21 %	*
Urea	57-13-6	50 – 70%	*

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

PRODUCT AT USE DILUTION			
Chemical Name	CAS-No	Weight %	Trade secret
Quaternary ammonium compounds, C12-14- alkyl[(ethylphenyl)methyl]dimethyl, chlorides	85409-23-0	0.007 – 0.020	*
Alkylbenzyldimethylammonium chloride	68391-01-5	0.007 – 0.020	*
Urea	57-13-6	0.028 - 0.030	*

## 4. FIRST AID MEASURES

## PRODUCT AS SOLD

## **Description of necessary first-aid measures**

**General Advice** 

Immediate medical attention is required

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.		
Skin Contact	Wash skin and soap water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation persists.		
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.		
Ingestion	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician if necessary.		
Most important symptoms/effects, acute	and delayed		
Most Important Symptoms/Effects	Irritation, burning sensation		
Indication of immediate medical attention	n and special treatment needed, if necessary		
Notes to Physician	Probable mucosal damage may contraindicate use of gastric lavage.		
	PRODUCT AT USE DILUTION		
Eye Contact	Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention immediately.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Using a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.		
Ingestion	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.		
Inhalation	Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.		

5. FIRE-FIGHTING MEASURES

## Suitable Extinguishing Media

Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water. Keep containers and surroundings cool with water spray.

ι	Jnsuita	ble	Exting	guish	ning l	Media
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Specific Hazards Arising from the Chemical

## No information available

## Explosion Data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None

chanical Impact

### None 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. Ensure adequate ventilation. Use personal protective equipment. High risk of slipping due to leakage / spillage of product.

## **Environmental Precautions**

Environmental Precautions	Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.	
Methods and materials for containment	nt 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 sa Flush area with flooding quantities of water.	
Personal Precautions, protective equipment and emergency precautions	<b>PRODUCT AT USE DILUTION</b> 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 personal only. Refer to protective measure listed in section 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 material to ensure runoff does not reach a waterway.	

## 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 eat, drink or smoke when using this product.	
Conditions for safe storage, including any	<u>/ incompatibilities</u>	
Storage	Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.	
Incompatible Products	No information available	
	PRODUCT AT USE DILUTION	
Advice on safe handling	Do not ingest. Do not get in eyes, on skin or on clothing. Do not breathe mist. Wash hands thoroughly after handling.	
Conditions for safe storage	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 specified regulatory bodies

Appropriate engineering controls

**Engineering Measures** 

**Eyewash Stations** 

## Individual protection measures, such as personal protective equipment

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Eye/Face Protection Skin and Body Protection	Tightly fitting safety goggles. 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.
	PRODUCT AT USE DILUTION
Engineering Measures	Evewash stations
Protection Measures	Personal protective equipment
Eye Protection	Wear tight fitting safety googles.
Hand Protection	Wear protective gloves
Skin Protection	Suitable protective gloves and apron
Respiratory Protection	When workers are facing concentrations above the exposure limit they much use appropriate certified respirators.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **PRODUCT AS SOLD**

## Information on basic physical and chemical properties

Physical State Odor	Solid Ammonia	Appearar	nce	White	
	PROD	OCT AT USE DIL	UTION		
Physical State Odor	Liquid None	Appeara		Colorless	
<u>Property</u>	Values for Pro	duct as Sold	Values for Prod	uct at Use Dilution	
pH Melting Point/Range	N/A 240 °F		7.5 – 8.5		
Boiling Point/Boiling Range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limits in Air	No data availat No data availat No data availat No data availat	ble			
upper flammability limit lower flammability limit	No data availat No data availat	ble			
Vapor Pressure Vapor Density Relative Density	No data availat No data availat No data availat	ble			
Specific Gravity Water Solubility	No date availat Complete				
Solubility in other solvents Partition coefficient: n-octand	No data availat Mo data availat				
Autoignition Temperature Decomposition Temperature Viscosity	No data availat No data availat No data availat	ble ble			
Flammable Properties	Not flammable				
Explosive Properties Oxidizing Properties	Not explosive Not an 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

### Incompatible materials

None

### Hazardous decomposition products

None known based on information supplied.

## **11. TOXICOLOGICAL INFORMATION**

## PRODUCT AS SOLD

## Information on likely routes of exposure

### **Product Information:**

Eye Contact	Contact with eyes may cause serious eye damage.
Skin Contact	Contact with skin may cause chemical burns.
Ingestion	Gastrointestinal irritation, nausea, vomiting and diarrhea.

## PRODUCT AT USE DILUTION

Eye Contact	Irritation, redness
Skin Contact	Irritation, redness
Ingestion	Nausea, burning sensation in mouth or throat

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Redness, pain, burning sensation

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

Sensitization Mutagenic Effects Carcinogenicity No information available. No information available. Not carcinogenic

No information available. No information available. No information available.

No information available.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Quaternary Ammonium Chlorides	344mg / kg (Rat) est.	3340 mg/kg (Rabbit) est.	*

Reproductive Toxicity			
STOT - single exposure			
STOT - repeated exposure			
Aspiration Hazard			

Numerical measures of toxicity • - Product

The following values are calculated based on chapter 3.1 of the GHS document: LD50 Oral No information available.

### LD50 Dermal Inhalation Vapor

No information available. No information available No information available

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic life

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water
				Flea)
Urea		LC50: 16200-18300 mg/L	EC50 = 23914 mg/L 5 min	EC50 48 h: = 3910 mg/L
		Poecilia reticulata 96 h	_	Static (Daphnia magna)
				EC50 24 h: > 10000 mg/L
				(Daphnia magna Straus)

# Persistence and Degradability Bioaccumulation

No information available. 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

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

**Contaminated Packaging** 

## PRODUCT AT USE DILUTION

Waste Disposal MethodsDispose of in accordance of the federal, state, local regulations.Contaminated PackingDispose of in accordance of the federal, state, local regulations.

## 14. TRANSPORT INFORMATION

## DOT

Not regulated.

## **15. REGULATORY INFORMATION**

### International Inventories TSCA DSL/NDSL EINECS/ELINCS

Complies Complies Complies

## Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List EINECS/ELINCS – European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

## U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide lay. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.com The hazard information required on the pesticide label is reproduced in Section 2, Hazards Information, of this Safety Data Sheet. The pesticide label also includes other important information, including direction for use.

## PRODUCT AS SOLD SARA 311/312 Hazard Co

ARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

PRODUCT AT USE DILUTION			
Acute Health Hazard	Yes		
Chronic Health Hazard	No		
Fire Hazard	No		
Sudden Release of Pressure Hazard	No		
Reactive Hazard	No		

### Clean Water Act

This product contains no substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, contains no substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

None

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### U.S. State Regulations

### California Proposition 65

This product contains no Proposition 65 chemicals.

New Issue

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

### U.S. EPA Label Information

### **EPA Pesticide Registration Number**

16. OTHER INFORMATION					
<u>NFPA</u>	Health Hazard 3	Flammability	0	Instability 0	Physical and Chemical Hazards - 1
<u>HMIS</u>	Health Hazard 3	Flammability	0	Physical Hazard 0	Personal Protection B
<b>Prepared By</b> Sunburst Chemicals	Sunburst Chemicals 220 W. 86 <sup>th</sup> Street Bloomington, MN 55420 952-884-3144				
Issuing Date Revision Date	28-Oct-2014 14-Sep-2015				

**General Disclaimer** 

**Revision Note** 

The information provided on this MSDS 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**