



# SAFETY DATA SHEET

Issuing Date 23-Feb-2015

Revision Date 14-Feb-2017

Revision Number 2

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

### GHS product identifier

Product Name Chlorbrite

### Other means of identification

Product Code(s) 7762

UN-Number UN1791

Synonyms Sodium Hypochlorite

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

Recommended Use Chlorine Bleach

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
Skin Corrosion/Irritation	Category 1 Subcategory 1B
Serious Eye Damage/Eye Irritation	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1
Corrosive to Metals	Category 1
Oxidizing Liquids	Category 2


### **PRODUCT AT USE DILUTION**

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

### GHS Label elements, including precautionary statements

### Emergency Overview

### **PRODUCT AS SOLD**

<b>Signal Word</b> <b>Hazard Statements</b> <ul style="list-style-type: none"><li>• Harmful if swallowed</li><li>• Causes severe skin burns and eye damage</li><li>• Very toxic to aquatic life with long lasting effects</li><li>• May be corrosive to metals</li><li>• May intensify fire; oxidizer</li></ul>	<b>Danger</b>	
		
<b>Appearance</b> Yellow	<b>Physical State</b> Liquid	<b>Odor</b> Chlorine

**Precautionary Statements****Prevention**

- 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
- Wear protective gloves/protective clothing/eye protection/face protection
- Keep away from heat/sparks/open flames/hot surfaces – no smoking
- Take any precaution to avoid mixing with combustibles
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

**General Advice**

- Immediately call a POISON CENTER or doctor/physician
- Immerse in cool water/wrap in wet bandages
- Absorb spillage to prevent material damage

**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**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

**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 if you feel unwell
- Rinse mouth
- Do NOT induce vomiting

**Storage**

- Store locked up
- Store in corrosive resistant aluminum container with a resistant liner
- Keep/store away from clothing/combustible materials

**Disposal**

- Dispose of contents/container to an approved waste disposal plant
- Dispose of contents/container to industrial incineration plant
- Avoid release into the environment

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

Very toxic to aquatic life with long lasting effects

**PRODUCT AT USE DILUTION****Signal Word****Danger****Hazard Statements**

- Harmful if swallowed
- Causes severe skin burns and eye damage

**Appearance** Colorless**Physical State** Liquid**Odor** Chlorine**Precautionary Statements****Prevention**

- 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
- Wear protective gloves/protective clothing/eye protection/face protection

**General Advice**

- Immediately call a POISON CENTER or doctor/physician if you feel unwell

**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**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse

**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 if you feel unwell
- Rinse mouth
- Do NOT induce vomiting

**Storage**

- Store locked up

**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 hypochlorite	7681-52-9	10 - 15	*
Sodium hydroxide	1310-73-2	0.05 - 1.0	*

\*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 0.02% (&lt; 200ppm)

**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>	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin Contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
<b>Self-protection of the First Aider</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**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** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. 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. 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**

The product causes burns of eyes, skin and mucous membranes, Thermal decomposition can lead to release of irritating and toxic gases and vapors, In the event of fire and/or explosion do not breathe fumes.

**Hazardous Combustion Products** Chlorine gas.

**Explosion Data**

**Sensitivity to Mechanical Impact** None  
**Sensitivity to Static Discharge** None

**Protective Equipment and Precautions for Firefighters**

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full face piece operated in the pressure-demand or other positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**PRODUCT AS SOLD**

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

**Personal Precautions** Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

**Environmental Precautions**

**Environmental Precautions** Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

**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** Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dike far ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

### PRODUCT AT USE DILUTION

**Personal Precautions** 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.

**Environmental Precautions** Avoid release to the environment. Rinse or mop up use solutions. Solutions may be flushed down sanitary sewer drains.

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

**Methods for Containment** Prevent solutions from spillage.

**Methods for Cleaning Up** Flush area with water.

## 7. HANDLING AND STORAGE

**PRODUCT AS SOLD**

**Precautions for safe handling**

**Handling** Use personal protective equipment as required. Use only with adequate ventilation. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

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

**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

**Incompatible Products** Strong acids and bases; Oxidizing agents; Ammonia; Amines; Ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, soaps, and bisulfates.

### 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. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with anything but water.

**Conditions for safe storage** Keep out of reach of children. Store in suitable labeled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
Sodium Hypochlorite	From Chlorine 0.5ppm (TWA)	From Chlorine 0.5ppm (TWA)	-

### Appropriate engineering controls

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). Ensure adequate ventilation, especially in confined areas.

### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

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

#### Eye/Face Protection

Tightly fitting safety goggles. Face protection shield.

#### Skin and Body Protection

Gloves made of plastic or rubber. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

#### Respiratory Protection

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

#### Hygiene Measures

Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### PRODUCT AS SOLD

#### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Appearance</b>	Yellow
<b>Odor</b>	Chlorine	<b>Odor Threshold</b>	No information available

#### Property

<b>pH</b>	10.5 – 11.5
<b>Melting Point/Range</b>	-26 °C / -15 °F
<b>Boiling Point/Boiling Range</b>	40 °C / 104 °F
<b>Flash Point</b>	None
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Flammability Limits in Air</b>	
upper flammability limit	No data available
lower flammability limit	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available

#### Values for Product at Use Dilution

pH	9.5 – 10.5
Boiling Point	212 °F
Physical State	Liquid
Odor	Chlorine
Appearance	Colorless

<b>Relative Density</b>	No data available
<b>Specific Gravity</b>	1.20
<b>Water Solubility</b>	Complete
<b>Solubility in other solvents</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Flammable Properties</b>	Not flammable
<b>Explosive Properties</b>	Not explosive
<b>Oxidizing Properties</b>	Is an oxidizing agent

**Other information**

**VOC Content (%)** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available.

**Chemical stability**

Slowly decomposes on contact with air, increases depending on temperature and concentration; Exposure to sunlight accelerates decomposition.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Exposure to air or moisture over prolonged periods; Exposure to light; Incompatibles: Heat

**Incompatible materials**

Strong acids and bases, Oxidizing agents, Ammonia, Amines, Ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, soaps, and bisulfates.

**Hazardous decomposition products**

Thermal decomposition can lead to the release of irritating and toxic gases and vapors. Chlorine gas.

## 11. TOXICOLOGICAL INFORMATION

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

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Eye contact with corrosive substances can cause serious eye damage.
<b>Skin Contact</b>	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>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Causes skin irritation.
<b>Ingestion</b>	Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Hypochlorite	= 8200 mg/kg (Rat)	=10000 mg/kg ( Rabbit )	-
Sodium Hydroxide	-	= 1350 mg/kg ( Rabbit )	-

**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**

**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Hypochlorite		Group 3		X

**IARC: (International Agency for Research on Cancer)**

Group 3: Not Classifiable as to its Carcinogenicity to Humans

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

**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** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

86.4% of the mixture consists of components(s) of unknown hazards to the aquatic environment. Very toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium hydroxide		LC50 96 h: = 45.4 mg/L static (Oncorhynchus Mykiss)		
Sodium hypochlorite	EC50 24 h: = 0.095 mg/L (Skeletonema costatum)	LC50 96 h: 0.03 - 0.19 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: 0.05 - 0.771 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: 0.06 - 0.11 mg/L flow-through (Pimephales promelas) LC50 96 h: 0.18 - 0.22 mg/L static (Oncorhynchus mykiss) LC50 96 h: 0.28 - 1 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 0.4 - 0.8 mg/L static (Lepomis macrochirus) LC50 96 h: 4.5 - 7.6 mg/L static (Pimephales promelas)		EC50 48 h: 0.033 - 0.044 mg/L Static (Daphnia magna) EC50 96 h: = 2.1 mg/L (Daphnia magna)

**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 hypochlorite	Toxic Ignitable Reactive

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

**14. TRANSPORT INFORMATION**

**DOT**

**UN-Number** UN1791  
**Proper shipping name** Hypochlorite solutions  
**Hazard Class** 8  
**Packing Group** III  
**Reportable Quantity (RQ)** Sodium hypochlorite: RQ kg= 100 lbs  
**Description** UN1791, Hydrochlorite solutions, 8, PG III

**15. REGULATORY INFORMATION**

**International Inventories**

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

**Legend**

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

**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**

**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 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
Sodium hydroxide	1000 lb			X
Sodium hypochlorite	100 lb			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
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ
Sodium hypochlorite	100 lb	1000 lb	RQ 100 lb final RQ RQ 45.4 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 hydroxide	X	X	X		X
Sodium hypochlorite	X	X	X		

**U.S. EPA Label Information**

U.S. EPA Registration Number

7870-1-670

EPA Pesticide Registration Number

670-MN-1

16. OTHER INFORMATION							
<b><u>NFPA</u></b>	Health Hazard	3	Flammability	0	Instability	1	Physical and Chemical Hazards - Personal Protection B
<b><u>HMIS</u></b>	Health Hazard	3	Flammability	0	Physical Hazard	1	
<b>Prepared By</b>	Sunburst Chemicals 220 West 86 <sup>th</sup> Street Bloomington, MN 55420 952-884-3144						
<b>Issuing Date</b>	23-Feb-2015						
<b>Revision Date</b>	14-Feb-2017						
<b>Revision Note</b>	Update						

**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**