

## Sunsan 2

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Sunsan 2
<b>Other Means of Identification</b>	5500
<b>Recommended Use</b>	Chlorine Bleach.
<b>Restrictions on Use</b>	No information available.
<b>Manufacturer/Supplier Identifier</b>	Sunburst Chemicals, Inc., 220 W. 86th St., Bloomington, MN, 55420, 952-884-3144
<b>Emergency Phone No.</b>	Emergency Telephone Number, 1-866-303-6943
<b>SDS No.</b>	0005

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

#### Classification

Acute toxicity (Oral) - Category 4; Skin corrosion - Category 1B; Serious eye damage - Category 1; Aquatic hazard (Acute) - Category 1; Aquatic hazard (Chronic) - Category 1

#### Label Elements



Signal Word:  
Danger

#### Hazard Statement(s):

Harmful if swallowed or in contact with skin.  
Causes severe skin burns and eye damage.  
Very toxic to aquatic life with long lasting effects.

#### Precautionary Statement(s):

Prevention:  
Wash hands and skin thoroughly after handling.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.

#### General advice

Immediately call a POISON CENTRE or doctor.

Eyes

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

Skin

IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTRE or doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations. Avoid release to the environment.

**Other Hazards**

Not applicable.

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PRODUCT AT USE DILUTION

Acute toxicity (Oral) - Category 4. Skin corrosion - Category 2; Serious eye damage - Category 1.

Signal Word    Danger

Hazard Statements

- Harmful if swallowed
- Causes skin irritation
- Causes eye damage

Precautionary Statement(s):

Prevention:

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

General Response:

- 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 CENTRE or doctor/physician.
- IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor / physician if you feel unwell.
- IF SWALLOWED: Rinse mouth, sip a glass of water if able to do so. Do NOT induce vomiting. Call a POISON CENTRE immediately.

Storage:

Store in accordance with local regulations.  
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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
water	7732-18-5	80-95		
Sodium hypochlorite	7681-52-9	5.25		
Sodium chloride	7647-14-5	4.12		
Sodium hydroxide	1310-73-2	0.2		

#### Notes

PRODUCT AT USE DILUTION

Contains ingredients listed above at weight % less than 0.02% (<200ppm)

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

##### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Seek immediate medical attention/advice.

##### Ingestion

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 centre immediately.

##### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

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PRODUCT AT USE DILUTION

EYE CONTACT:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention / advice.

SKIN CONTACT:

Wash off immediately with plenty of water for at least 15 minutes. Use mild soap if available. Get medical attention if irritation develops and persists.

INHALATION:

Get medical attention if symptoms occur.

INGESTION:

Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention / advice.  
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#### Most Important Symptoms and Effects, Acute and Delayed

None known.

#### Immediate Medical Attention and Special Treatment

##### Special Instructions

Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

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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.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical.

#### Unsuitable Extinguishing Media

None known.

### Specific Hazards Arising from the Product

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

Mild oxidizer.

### Special Protective Equipment and Precautions for Fire-fighters

Containers of this material can explode as oxygen is liberated under high heat or fire conditions. Reacts to form explosive products with amines, ammonia or ammonium salts, methanol, aziridine. Explosive reaction with formic acid (@ 55°C), phenyl acetonitrile, ethylene amine

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

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

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

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

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

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.

### Other Information

#### PRODUCT AT USE DILUTION

Personal precautions, protective equipment and emergency procedures:

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:

Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

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## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product, or its use solutions.

### Conditions for Safe Storage

Keep container tightly closed. Keep container closed when not in use. Keep out of the reach of children.

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**PRODUCT AT USE DILUTION**

#### Precautions for Safe Handling:

Avoid contact with skin and eyes. Wash hands thoroughly after handling.

#### Conditions for Safe Storage:

Keep out of reach of children. Store in suitable labeled containers.  
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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Sodium hydroxide	2 mg/m <sup>3</sup>		2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>		
Sodium hypochlorite	0.5 ppm		0.5 ppm			

### Appropriate Engineering Controls

Provide eyewash and safety shower if contact or splash hazard exists. General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Rubber or vinyl gloves recommended when handling solid chemicals or their use solutions.

#### Respiratory Protection

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Yellow.
Odour	Chlorine
Odour Threshold	Not available
pH	12.0 - 12.5
Melting Point/Freezing Point	-7 °C (19 °F) (melting); Not applicable (freezing)
Initial Boiling Point/Range	100 °C (212 °F)
Flash Point	Not available
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable

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<b>Vapour Density (air = 1)</b>	Not applicable
<b>Relative Density (water = 1)</b>	1.2
<b>Solubility</b>	Soluble in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not applicable
<b>Auto-ignition Temperature</b>	Not applicable
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not applicable (kinematic); Not applicable (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Use Dilution</b>	Use dilution pH is 9.5 - 10.5 pH
<b>VOC Content</b>	Not available
<b>Other Physical Property 3</b>	Oxidizer

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

None known.

### Chemical Stability

Stable under normal conditions of use and storage. Stability decreases with increased concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper and iron.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Prolonged exposure to air.

Light.

Heat.

### Incompatible Materials

Acids and strong bases; Oxidizing agents; Ether, ammonia compounds, hydrogen peroxide, all acids, alum, reducing agents, human or animal waste, oxidizable or combustible materials such as wood, cloth or organic materials, organic chemicals such as solvents and solvent based cleaning compounds, fuels and fuel oils, amines, methanol, propane, organic polymers, ethylene glycol, insecticides, heavy metals such as iron, copper, magnesium, aluminum, tin, steel, stainless steel, carbon steel, manganese, zinc, chromium, nickel, cobalt and their alloys, sodium sulfite, sodium bisulfate, sodium hydrosulfite, sodium thiosulfate. Do not mix this product with any of the foregoing or hazardous gases can result.

### Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapours.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Eye contact; skin contact.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium hydroxide	Not available	Not available	1350 mg/kg (rat)
Sodium hypochlorite	Not available	3000-5000 mg/kg (rat)	> 2000 mg/kg (rabbit)

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

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**Skin Corrosion/Irritation**

Causes severe skin burns.

**Serious Eye Damage/Irritation**

Human experience and animal tests show serious eye damage.

**STOT (Specific Target Organ Toxicity) - Single Exposure**

**Inhalation**

May cause irritation of respiratory tract.

**Ingestion**

Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Aspiration Hazard**

No information was located.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information available.

**Respiratory and/or Skin Sensitization**

No information available.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Sodium hypochlorite	Group 3			

Group 3 – Not classifiable as to its carcinogenicity to humans.

**Reproductive Toxicity**

**Development of Offspring**

No information was located.

**Sexual Function and Fertility**

No information was located.

**Effects on or via Lactation**

No information was located.

**Germ Cell Mutagenicity**

Not mutagenic.

**Interactive Effects**

No information was located.

**Other Information**

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**PRODUCT AT USE DILUTION**

Inhalation: May cause irritation of respiratory tract.

Eye Contact: Causes serious eye damage

Skin Contact: Causes skin irritation.

Ingestion: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.  
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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Harmful, with long lasting effects to aquatic life, based on acute toxicity tests.

**Acute Aquatic Toxicity**

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Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Sodium hydroxide	45.4 mg/L (Lepomis macrochirus (bluegill); static)	Not available	Not available	Not available
Sodium hypochlorite	0.28-1 mg/L (Lepomis macrochirus (bluegill); 96-hour; flow-through)	2.1 mg/L (Daphnia magna (water flea); 96-hour)	Not available	0.095 mg/L (24-hour)

#### Persistence and Degradability

No information available.

#### Bioaccumulative Potential

No information available.

#### Mobility in Soil

Studies are not available.

#### Other Adverse Effects

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under US DOT Regulations.

**Environmental Hazards** Not applicable

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

#### Safety, Health and Environmental Regulations

##### Canada

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

##### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

#### Additional USA Regulatory Lists

SARA Title III - Section 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.

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. The hazard

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information as required on the pesticide label is reproduced in Section 2, Hazard Identification, of this safety data sheet.

SARA Title III - Section 311/312:

Acute Health Hazard	Yes	
Chronic Health Hazard	No	
Fire Hazard	No	
Sudden Release of Pressure Hazard		No
Reactive Hazard		No

California Proposition 65  
This product contains no Proposition 65 chemicals.

U.S. EPA Label Information  
U.S. EPA Registration Number 9616-10-670.

#### 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):

CWA - Hazardous Substances :: (Sodium hypochlorite)  
CWA - Hazardous Substances :: (Sodium hydroxide)

#### 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):

Hazardous Substances RQs:  
Sodium Hypochlorite 100 lb final RQ/ RQ 45.4 kg final RQ  
Sodium Hydroxide 1000 lb final RQ/ RQ 454 kg final RQ

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

New Jersey Right To Know: (Sodium hypochlorite)  
Massachusetts Right To Know: (Sodium hypochlorite)  
Pennsylvania Right To Know: (Sodium hypochlorite)

Massachusetts Right To Know: (Sodium hydroxide)  
New Jersey Right To Know: (Sodium hydroxide)  
Pennsylvania Right To Know: (Sodium hydroxide)  
Illinois Right to Know: (Sodium hydroxide)  
Rhode Island: (Sodium hydroxide)

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 3</b>	<b>Flammability - 0</b>	<b>Instability - 1</b>	
	<b>Special Hazard - Oxidizing</b>		<b>Based on</b>	Sodium hydroxide

**SDS Prepared By** Sunburst Chemicals.

**Phone No.** 952-884-3144

**Date of Last Revision** November 25, 2019

#### Additional Information

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NFPA Rating Health - 2 Flammability - 0 Instability - 0  
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