



PSECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Star Xene

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

Use of the substance/mixture : Biocides

1.3. Details of the supplier of the safety data sheet

Five Star Chemicals & Supply Inc
4915 E 52nd Ave
Commerce City, CO 80022

1.4. Emergency telephone number

Emergency number : 800-535-5053
INFOTRAC

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :
Signal word (GHS-US) :
Hazard statements (GHS-US) :
Precautionary statements (GHS-US) :

2.3. Other hazards

Sodium Chlorite : Adverse effects from repeated ingestion may include: Gastrointestinal effects. Abnormal decrease in number of red blood cells (anemia) which could produce tiredness, rapid heartbeat, dizziness, pale skin, leg cramps, shortness of breath altered blood chemistry

Target Organs
Sodium chlorite : Blood

Carcinogenicity
None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, or OSHA, as a carcinogen.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Sodium Chlorite	(CAS No) 7758-19-2	5-10	
Water	(CAS No) 7732-18-5	90-95	

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air. If not breathing, give artificial respiration. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash off immediately with plenty of water. Call a poison control center or doctor for treatment advice.

First-aid measures after eye contact : Rinse immediately with plenty of water and seek medical advice.

Star Xene

Safety Data Sheet

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

First-aid measures after ingestion	: Call a poison control center or doctor for treatment advice. DO not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Notes to physician	Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water
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5.2. Special hazards arising from the substance or mixture

Fire and Explosion Hazard	: Drying of this product on clothing or combustible materials may cause fire.
Flammable Properties	
Flash point	Does not flash
Thermal decomposition	Stable under normal conditions. Decomposes on heating.

5.3. Advice for firefighters

Firefighting instructions	: Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Note: Review FIRE FIGHTING MEASURES AND HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (personnel)	: Wear personal protective equipment. Avoid contact with the skin and the eyes.
Spill Cleanup	: Dilute with water. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water.
Accidental Release Measures	: Prevent material from entering sewers, waterways, or low areas. Do not allow to dry.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling (Personnel)	: Use only in well ventilated areas. Avoid contact with skin, eyes, and clothing. Wash hands before breaks and at the end of workday.
Handling (Physical Aspects)	: Avoid letting the product become dry.
Storage	Keep tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink, and animal feeding stuffs. Avoid heat, freezing and ultraviolet light. Do not allow to dry. Keep away from strong acids and oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1 Exposure controls

Engineering controls	: Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Respiratory protection	Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
Hand protection	: Material: Polyvinyl chloride – PVC. Additional protection: Impervious gloves.
Eye protection	: Wear coverall chemical splash goggles. Additionally wear a face shield where the possibility exists for face contact due to splashing, spraying, or airborne contact with this material.
Skin and body protection	: Where there is potential for skin contact, have available and wear as appropriate, impervious gloves, apron, pants, jacket, hood and boots.
Protective measures	: Avoid exposure – obtain special instructions before use. Wear suitable gloves and eye/face protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	: Liquid
Color	: Light yellow
Odor	: Odourless, slight chlorine
pH	: 9.0 – 9.2
Crystallization temperature	: Ca. -5 C (23 F)
Freezing point	: Ca. -10 C (14 F)
Boiling point	: Ca. 105 C (221 F)
Specific gravity	: 1.065 – 1.095 at 20 C (68 F)
Water Solubility	: Completely soluble

SECTION 10: Stability and reactivity

10.1. Chemical stability

Stable at normal temperatures and storage conditions. Decomposes on heating.

10.2. Possibility of hazardous reactions

Contact with acids, organic materials, reducing agents and oxidizing agents will release toxic gases of chlorine and/or chlorine dioxide.

10.3. Conditions to avoid

Stable under normal conditions. Decomposes on heating

10.4. Hazardous decomposition products

Hazardous decomposition products : Chlorine, Chlorine dioxide ...%

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Sodium Chlorite	
Inhalation 4 h LC50	> 6.53mg/l , rat
Dermal LD50	>2000 mg/kg , rat
Oral LD50	1075 mg/kg , rat
Skin corrosion/irritation	: irritating
Serious eye damage/irritation	: irritating
Respiratory or skin sensitization	: Animal test did not cause sensitization by skin contact
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Carcinogenicity	: Animal testing did not show any carcinogenic effects
Reproductive toxicity	: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
Teratogenicity	: Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

SECTION 12: Ecological information

12.1. Toxicity

Sodium Chlorite	
96 h LC 50	Cyprinodon variegatus (sheepshead minnow) 105 mg/l
96 h ErC50	Scenedesmus capricornutum (fresh water algae) 1 mg/l
48 h EC50	Daphnia magna (water flea) < 1.0 mg/l
96 h LC50	Americamysis bahia (mysid shrimp) 0.65 mg/l

12.2. Persistence and degradability

Sodium Chlorite	
Persistence and degradability	Readily biodegradable
Additional ecological information	No data is available on the product itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.
- Environmental Hazards : Empty containers should be taken to an approved waste handling site for recycling or disposal. If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14: Transport information

Additional information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

15.1. US Federal regulations

- TSCA Status : On the inventory, or in compliance with the inventory.
- SARA 313 Regulated Chemicals : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De minimis) reporting levels established by SARA Title III, Section 313.
- EPA Reg. No. : 9150-2 In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read and follow all label Directions. This product is excluded from listing requirements under EPA/TSCA.
- California Prop. 65 : Chemicals known to the State of California to cause cancer, birth defects or any other harm: None known.
- NJ Right to know
Regulated Chemicals : Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens, or teratogens): Sodium Chlorite.

SECTION 16: Other information

- Health : 1
- Flammability : 1
- Reactivity/Physical Hazard : 0
- PPE : Personal Protection rating to be supplied by user depending on use conditions.
- Contact Person : Five Star Chemicals and Supply Inc. 4915 E. 52nd Ave, Commerce City, CO 80022
(303) 287-0186

SDS US (GHS HazCom 2012)

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