



Material Safety Data Sheet

<p>NFPA</p> 	<p>HMIS</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="background-color: #00FFFF;">Health Hazard</td> <td style="text-align: center; font-weight: bold;">3</td> </tr> <tr> <td style="background-color: #FFCCCC;">Fire Hazard</td> <td style="text-align: center; font-weight: bold;">0</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center; font-weight: bold;">0</td> </tr> </table>	Health Hazard	3	Fire Hazard	0	Reactivity	0	<p>Personal Protective Equipment</p>  <p>See Section 15.</p>
Health Hazard	3							
Fire Hazard	0							
Reactivity	0							

Section 1. Chemical Product and Company Identification		Page Number: 1
Common Name/Trade Name	Sodium selenite	Catalog Number(s). SO206
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	CAS# 10102-18-8
Commercial Name(s)	Not available.	RTECS VS7350000
Synonym	Not available.	TSCA TSCA 8(b) inventory: Sodium selenite
Chemical Name	Sodium Selenite	CI# Not available.
Chemical Family	Not available.	<p style="text-align: center; margin: 0;">IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300</p> <p style="margin: 0;">CALL (310) 516-8000</p>
Chemical Formula	Na ₂ -Se-O ₃	
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	

Section 2. Composition and Information on Ingredients					
		<i>Exposure Limits</i>			
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Sodium selenite	10102-18-8	0.2			100
Toxicological Data on Ingredients	<p>Sodium selenite: ORAL (LD50): Acute: 7 mg/kg [Rat]. 7.1 mg/kg [Mouse].</p>				

Section 3. Hazards Identification	
Potential Acute Health Effects	Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (permeator). Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
Potential Chronic Health Effects	<p>CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.</p> <p>MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.</p> <p>TERATOGENIC EFFECTS: Classified POSSIBLE for human.</p> <p>DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE].</p> <p>The substance may be toxic to blood, kidneys, liver, skin, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.</p>

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Points	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill	Poisonous solid. Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7. Handling and Storage

Precautions Keep locked up.. Do not ingest. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits TWA: 0.2 from ACGIH (TLV) [United States] [1995]
Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance	Solid. (Crystalline solid.)	Odor	Not available.
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Molecular Weight	172.94 g/mole	Taste	Not available.
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pH (1% soln/water)	Not available.	Color	White.
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Boiling Point Decomposition temperature: 710°C (1310°F)

Melting Point 710°C (1310°F)

Critical Temperature Not available.

Specific Gravity 3.1 (Water = 1)

Vapor Pressure Not applicable.

Vapor Density 5.96 (Air = 1)

Volatility Not available.

Odor Threshold Not available.

Water/Oil Dist. Coeff. Not available.

Ionicity (in Water) Not available.

Dispersion Properties See solubility in water.

Solubility Easily soluble in hot water.
Soluble in cold water.
Insoluble in methanol, n-octanol.

Section 10. Stability and Reactivity Data

Stability The product is stable.

Instability Temperature Not available.

Conditions of Instability Incompatible materials.

Incompatibility with various substances Not available.

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Corrosivity	Non-corrosive in presence of glass.
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Dermal contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 7 mg/kg [Rat].
Chronic Effects on Humans	<p>CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.</p> <p>MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.</p> <p>TERATOGENIC EFFECTS: Classified POSSIBLE for human.</p> <p>DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE].</p> <p>May cause damage to the following organs: blood, kidneys, liver, skin, central nervous system (CNS).</p>
Other Toxic Effects on Humans	<p>Very hazardous in case of skin contact (irritant), of ingestion, of inhalation.</p> <p>Hazardous in case of skin contact (permeator).</p>
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	<p>May cause adverse reproductive effects (paternal and maternal).</p> <p>Embryotoxic and/or foetotoxic in animal.</p> <p>May affect genetic material (mutagenic).</p> <p>May cause cancer based on animal data.</p>
Special Remarks on other Toxic Effects on Humans	<p>Acute Potential Health Effects:</p> <p>Skin: Causes skin irritation, dermatitis, and flushing.</p> <p>Eyes: causes severe eye irritation.</p> <p>Inhalation: May cause respiratory tract and mucous membrane irritation with coughing, nasal discharge, epistaxis, and olfactory fatigue, pulmonary edema, metal fume fever (symptoms include: chills, fever, headache), bronchitis, pneumonitis, transient dyspnea.</p> <p>Ingestion: Causes gastrointestinal irritation with nausea, vomiting, diarrhea, salivation, and gastrointestinal pain. Also causes halitosis or a garlic-like odor of the breath and affects behavior/central nervous system (CNS depression, restlessness, muscle contraction, weakness, tremor, or spaticity, convulsions, lightheaded sensation, sluggish pupillary reflexes, somnolence), blood (leukopenia), urinary system (bladder, kidneys), cardiovascular system, and liver (dengeneration and cirrhosis).</p> <p>Chronic Potential Health Effects:</p> <p>Skin: It is absorbed through the skin. Effects of chronic or prolonged exposure by skin contact may include dermatitis, hair discoloration, alopecia. It may also affect behavior (convulsions).</p> <p>Ingestion: Chronic or prolonged exposure by ingestion may affect the blood (anemia, leukocytosis), liver (hepatic necrosis, hemorrhage, cirrhosis), urinary system (kidneys, bladder). It may also cause metallic taste, garlic-like odor on the breath, paleness, coated tongue, nervousness, irritability, fatigue, and hyperreflexia.</p>

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

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Section 13. Disposal Considerations**Waste Disposal**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information**DOT Classification**

CLASS 6.1: Poisonous material.

Identification

: Selenite (Sodium selenite) UNNA: UN2636 PG: I

Special Provisions for Transport

Not available.

DOT (Pictograms)**Section 15. Other Regulatory Information and Pictograms****Federal and State Regulations**

Connecticut hazardous material survey.: Sodium selenite
 Illinois chemical safety act: Sodium selenite
 New York acutely hazardous substances: Sodium selenite
 Pennsylvania RTK: Sodium selenite
 Florida: Sodium selenite
 Massachusetts RTK: Sodium selenite
 Massachusetts spill list: Sodium selenite
 New Jersey: Sodium selenite
 New Jersey spill list: Sodium selenite
 Louisiana RTK reporting list: Sodium selenite
 Louisiana spill reporting: Sodium selenite
 TSCA 8(b) inventory: Sodium selenite
 SARA 302/304/311/312 extremely hazardous substances: Sodium selenite
 SARA 313 toxic chemical notification and release reporting: Sodium selenite
 CERCLA: Hazardous substances.: Sodium selenite: 100 lbs. (45.36 kg)

California Proposition 65 Warnings**Other Regulations**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
 EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications**WHMIS (Canada)**

CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC).
 CLASS D-2A: Material causing other toxic effects (VERY TOXIC).


DSCL (EEC)

R28- Very toxic if swallowed.	S1/2- Keep locked up and out of the reach of children.
R38- Irritating to skin.	S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
R40- Possible risks of irreversible effects.	S28- After contact with skin, wash immediately with plenty of [***]
R41- Risk of serious damage to eyes.	S36/37- Wear suitable protective clothing and gloves.
R62- Possible risk of impaired fertility.	S39- Wear eye/face protection.
R63- Possible risk of harm to the unborn child.	S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.)

Health Hazard	3
Fire Hazard	0
Reactivity	0
Personal Protection	E

National Fire Protection Association (U.S.A.)

Health  Flammability
Reactivity
Specific hazard

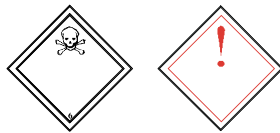
WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.



Splash goggles.

Section 16. Other Information**MSDS Code** S4430**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 1/20/2003.

Verified by Sonia Owen.

Printed 8/26/2004.

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.