

SAFETY DATA SHEET

Preparation Date: 9/1/2025

Revision Date: 6/29/2018

Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: SO206
Product Name: SODIUM SELENITE, POWDER

Other means of identification

Synonyms: No information available
CAS #: 10102-18-8
RTECS # VS7350000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Removing green color from glass during manufacturing; stain and decolorant for glass; in trace amounts, as a mineral and nutrient source for feedstuffs.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Germ cell mutagenicity	Category 2
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3

Label elements

Danger

Hazard statements

Fatal if swallowed
Toxic if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing genetic defects
Suspected of damaging fertility or the unborn child
May cause respiratory irritation



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Contaminated work clothing must not be allowed out of the workplace
Wear respiratory protection
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

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.
IF ON SKIN: Wash with plenty of water
Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
------------	---------	----------

Product code: SO206

Product name: SODIUM SELENITE,
POWDER

2 / 13

4. FIRST AID MEASURES

First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Toxic by inhalation.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Fatal if swallowed.

Most important symptoms and effects, both acute and delayed

- Symptoms**
- Ingestion may cause nausea, vomiting, and diarrhea
 - May cause metallic taste
 - garlic breath
 - Irritating to eyes, respiratory system and skin
 - Coughing and wheezing
 - Dyspnea (Shortness of breath and difficulty breathing)
 - May cause bronchitis
 - May cause chemical pneumonitis
 - May cause pulmonary edema
 - It may affect the kidneys
 - May affect the liver
 - May cause central nervous system effects
 - May affect the blood

Indication of any immediate medical attention and special treatment needed

- Notes to Physician:** Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
- Unsuitable Extinguishing Media:** No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products:	If it is involved in a fire the following can be released:. Selenium. Selenium oxide. Sodium Oxides.
Specific hazards:	No information available.
<u>Special Protective Actions for Firefighters</u>	
Specific Methods:	No information available.
Special Protective Equipment 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

Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.
<u>Environmental precautions</u>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Acids
Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Selenite	10102-18-8	0.2 mg/m ³ TWA (as Se)	0.2 mg/m ³ TWA (a Se) 1 mg/m ³ IDLH (Immediately Dangerous to Life or Health) (as Se)	0.2 mg/m ³ TWA (as Se)	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Selenite	10102-18-8	0.2 mg/m ³ TWA (as Se)	0.1 mg/m ³ TWA (as Se)	0.2 mg/m ³ TWA (as Se)	0.2 mg/m ³ TWAEV (as Se)

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sodium Selenite	10102-18-8	0.1 mg/m ³ TWA (selenium compounds)	0.2 mg/m ³ TWA (as Se)

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. 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.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields
- Skin and body protection:** Long sleeved clothing
Gloves
Chemical resistant apron
- Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:
Solid

Appearance:
Powder.

Color:
White. Grayish White.

Odor:

Product code: SO206

Product name: SODIUM SELENITE,
POWDER

5 / 13

No information available.	Taste No information available.	Formula: Na ₂ SeO ₃
Molecular/Formula weight: 172.94	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): 710°C/1310°F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: 3.1	pH: No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: 5.96	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Easily soluble in hot water Easily soluble in cold water Insoluble in Ethanol	

10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids
Reactive with strong oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Acids
Strong oxidizing agents

Hazardous decomposition products: When heated to decomposition it emits toxic fumes. Selenium oxides. Selenium. Sodium oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity**Component Information**

Sodium Selenite	
CAS-No.	10102-18-8
LD50/oral/rat = 7 mg/kg Oral LD50 Rat	
LD50/oral/mouse = 7.08 mg/kg	
LD50/dermal/rabbit = No information available	
LD50/dermal/rat = No information available	
LC50/inhalation/rat = No information available	
LC50/inhalation/mouse = No information available	
Other LD50 or LC50 information = 5.06 mg/kg oral LD50 Guinea pig 2.25 mg/kg oral LD50 Rabbit	

Product Information**LD50/oral/rat =****VALUE- Acute Tox Oral = 7 mg/kg****LD50/oral/mouse =****Value - Acute Tox Oral = 7.08 mg/kg****LD50/dermal/rabbit****VALUE-Acute Tox Dermal = No information available****LD50/dermal/rat****VALUE -Acute Tox Dermal = No information available****LC50/inhalation/rat****VALUE-Vapor = No information available****VALUE-Gas = No information available****VALUE-Dust/Mist = No information available****LC50/Inhalation/mouse****VALUE-Vapor = No information available****VALUE - Gas = No information available****VALUE - Dust/Mist = No information available****Symptoms****Skin Contact:**

Causes skin irritation. Selenium salts can produce toxicity by dermal absorption, but no specific information on dermal absorption was found for Sodium Selenite.

Eye Contact:

Causes serious eye irritation. Causes conjunctivitis. Eye contact may result in redness or pain. May cause blurred or foggy vision.

Inhalation

Irritating to respiratory system. Symptoms may include burning sensation of the nostrils, coughing, wheezing, sneezing, nasal discharge, epistaxis, olfactory fatigue, metallic taste in mouth, pulmonary edema, metal fume fever (symptoms include: chills, fever, headache), bronchitis, pneumonitis, transient dyspnea (shortness of breath and difficulty breathing).

Ingestion

Causes gastrointestinal irritation with nausea, vomiting, hypermotility, diarrhea, salivation, and gastrointestinal pain. Also causes halitosis or a garlic-like odor of

the breath metallic taste in mouth, muscle tenderness, and affects behavior/central nervous system (CNS depression, restlessness, dizziness, muscle contraction or spasticity, weakness, tremor, convulsions, lightheaded sensation, sluggish pupillary reflexes, somnolence, coma), blood (leukopenia), urinary system (kidneys), cardiovascular system, respiration (dyspnea), and liver (degeneration and cirrhosis).

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis). Chronic or prolonged exposure by ingestion may cause nausea, vomiting, and affect the blood (anemia, leukocytosis), liver (hepatic necrosis, hemorrhage, cirrhosis), urinary system (kidneys), metabolism (weight loss). It may also cause metallic taste, garlic-like odor on the breath, paleness, coated tongue, white streaks of the nails, nervousness, irritability, mood changes, muscle contraction or spasticity, convulsions, fatigue, and hyperreflexia, loss of hair, nails, skin lesions on the back of the hands, and feet, and on the outside of the legs.

Sensitization: May cause sensitization by skin contact.

Mutagenic Effects: Experiments with bacteria and/or yeast have shown mutagenic effects
Mutations in microorganisms
Sister Chromatid exchange (hamster lung; human lymphocyte)

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Selenite	10102-18-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity Suspected of damaging fertility or the unborn child

Reproductive Effects: May cause adverse reproductive effects based on animal data
The Registry of Toxic Effects of Chemical Substances (RTECS) notes reproductive effects data for animal studies on male rats (Paternal effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count) Testes, epididymis, sperm duct)

Developmental Effects: May cause adverse developmental effects based on animal data

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure STOT - single exposure. Respiratory system.

STOT - repeated exposure No information available.

Target Organs: Blood. Liver. Kidneys.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Selenite	10102-18-8	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN2630
Proper Shipping Name: Selenites (Sodium Selenite)
Hazard Class: 6.1
Subsidiary Class: No information available
Packing group: I
Emergency Response Guide Number: 151
Marine Pollutant: No data available
DOT RQ (lbs): 100 lbs./45.4 kg
Special Provisions: IB7, IP1, T6, TP33
Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.
Description: UN2630, Selenites (Sodium Selenite), 6.1, I

TDG (Canada)

UN-No: UN2630
Proper Shipping Name: Selenites
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: I
Marine Pollutant: No Information available
Description: UN2630, Selenites, 6.1, I

ADR

UN-No: UN2630
Proper Shipping Name: Selenites
Hazard Class: 6.1

Packing Group: I
Subsidiary Risk: No information available
Special Provisions 274
Description: UN2630, Selenites (Sodium Selenite), 6.1, I, ENVIRONMENTALLY HAZARDOUS

IMO / IMDG

UN-No: UN2630
Proper Shipping Name: Selenites
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: I
Marine Pollutant No information available
EMS: F-A
Special Provisions 274
Description UN2630, Selenites (SODIUM SELENITE), 6.1, I, Marine pollutant

RID

UN-No: UN2630
Proper Shipping Name: Selenites
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: I
Special Provisions 274
Description: UN2630, Selenites (Sodium Selenite), 6.1, I, ENVIRONMENTALLY HAZARDOUS

ICAO

UN-No: UN2630
Proper Shipping Name: Selenites
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: I
Description: UN2630, Selenites (Sodium Selenite), 6.1, I

IATA

UN-No: UN2630
Proper Shipping Name: Selenites
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: I
ERG Code: 6L
Special Provisions No information available
Description: UN2630, Selenites (Sodium Selenite), 6.1, I

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Sodium Selenite</i>	10102-18-8	Present(ACTI VE)	Present KE-31605	Present	Present (1)-507	Present	Present	Present 233-267-9

U.S. Regulations

Sodium Selenite

Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 1727
New Jersey (EHS) List: 1727 100 lb TPQ

New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental hazard
Pennsylvania RTK - Environmental Hazard List Present
New York Release Reporting - List of Hazardous Substances:
 100 lb RQ
Louisiana Reportable Quantity List for Pollutants: 100lbfinal RQ
 45.4kgfinal RQ
California Directors List of Hazardous Substances: Present

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sodium Selenite	10102-18-8	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sodium Selenite	10102-18-8	100 lb final RQ 45.4 kg final RQ	100 lb EPCRA RQ	None	Selenium compounds	1.0%

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Selenite	10102-18-8	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information: The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

D1A Very toxic materials
D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sodium Selenite	10102-18-8	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Sodium Selenite	10102-18-8	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Selenite	10102-18-8	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium Selenite	10102-18-8	Acute toxicity - Oral - Acute Tox. 2: H300 Fatal if swallowed. (Minimum classification); Acute toxicity - Inhalation - Acute Tox. 3: H331 Toxic if inhaled. (Minimum classification); Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction.; Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.; Supplemental Hazards: EUH031 Contact with acids liberates toxic gas.034-003-00-3

EU - CLP (1272/2008)

R-phrase(s)

R23 - Toxic by inhalation.

R28 - Very toxic if swallowed.

R31 - Contact with acids liberates toxic gas.

R43 - May cause sensitization by skin contact.

R51 - Toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

S -phrase(s)

S28 - After contact with skin, wash immediately with plenty of water

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

S 1/2 - Keep locked up and out of the reach of children.

S36/37 - Wear suitable protective clothing and gloves.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Sodium Selenite	10102-18-8	T; R23 T+; R28 R31 R43 N; R51-53	No information	S1/2 S28 S36/37 S45 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T+ - Very toxic.

T - Toxic

N - Dangerous for the environment.

T+**T****N**

16. OTHER INFORMATION

Preparation Date: 9/1/2025
Revision Date: 6/29/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet