



SODIUM SELENITE Safety Data Sheet- MSDS

Update version -IV-

Section 1 - CHEMICAL PRODUCT AND COMPANY 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 de colorant for glass; in trace amounts, as a mineral and nutrient source for feedstuffs.
Uses advised against: No information available

Manufacturer

DRON INDUSTRIES Off Torrent Pharma –Indrad 382715 Gujarat – India
www.dronindustries.in contact@dronindustries.in

Section 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

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

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium Selenite	10102-18-8	100

Section 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	<p>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</p>
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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.

Section 5 - FIRE FIGHTING MEASURES

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.

Special Protective Actions for Firefighters

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

Section 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.

Environmental precautions

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.

Section 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 agent

Section 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 (as 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

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Appearance: Powder.	Color: White, Grayish White
Odor: 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/cm ³): 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	

Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

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

Section 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 (hepatitis, 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	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.

Section 12 – ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bio accumulative potential: No information available.

Mobility: No information available.

Section 13 - DISPOSAL INFORMATION

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

Section 14 - TRANSPORT INFORMATION

DOT

UN-No: UN2630

Proper Shipping Name: Selenite's (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, selenite (Sodium Selenite), 6.1, I

TDG (Canada)

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

ADR

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

IMO / IMDG

UN-No:	UN2630
Proper Shipping Name:	selenite
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, selenite (SODIUM SELENITE), 6.1, I, Marine pollutant

RID

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

ICAO

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

IATA

UN-No:	UN2630
Proper Shipping Name:	selenite
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

Section 15 - REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Selenite	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
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 WHIMIS 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			CEPA Schedule I - Toxic Substances
Sodium Selenite	CAS-No.	Not listed	
Components		CEPA - 2010 Greenhouse Gases Subject to	
Sodium Selenite	10102-18-8	Mandatory Reporting	
		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.



Section 16 - OTHER INFORMATION

The above information is believed to be accurate and represent the best information currently available to us, but does not represent any warranty expressed or implied of the properties of the product. User should make their own investigation to determine the suitability of the information for their particular purpose.

Update version -IV-

