

MATERIAL SAFETY DATA SHEET

SODIUM SELENITE Pentahydrate

Extra Pure

MSDS CAS: -26970-82-1

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: SODIUM SELENITE Pentahydrate Extra Pure

CAS#: - 26970-82-1

C.I. No.: Not available.

Synonym: Not available.

Chemical Name: Not available.

Chemical Formula: Na₂SeO₃.5H₂O

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: OXFORD LAB FINE CHEM LLP
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
SODIUM SELENITE Pentahydrate	26970-82-1	100

Section 3: Hazards Identification

3.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : T+; R28 T; R23 R31 R43 N; R51-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331 Acute toxicity, Oral - Category 1 - Danger (CLP : Acute Tox. 1) H300 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP Aquatic Chronic 2) H411

3.2. Label elements

Labelling EC 67/548 or EC 1999/45

**Symbol(s) : T+ : Very toxic
N : Dangerous for the environment**

**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.
R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**

**S Phrase(s) : S28 : After contact with skin, wash immediately with
S36/37 : Wear suitable protective clothing and gloves.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.**

Contains : Sodium selenite pentahydrate

Section 3: Hazards Identification (Continued)

Labelling Regulation EC 1272/2008 (CLP)

Signal words : Danger

Hazard statements : H300 : Fatal if swallowed.

H331 : Toxic if inhaled.

H317 : May cause an allergic skin reaction.

H411 : Toxic to aquatic life with long lasting effects.

Precautionary statements

• **Prevention : P280: Wear protective gloves, protective clothing, eye protection, face protection.**

P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

• **Response : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.**

P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P391: Collect spillage.

P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.

P333+P313: If skin irritation or rash occurs : Get medical advice.

P363: Wash contaminated clothing before reuse.

Storage : P403+P233: Store in well-ventilated place. Keep container tightly closed.

P405: Store locked up.

• **Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.**

Contains : Sodium selenite pentahydrate

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Section 4: First Aid Measures

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a position comfortable for breathing. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation or rash occurs : Specific treatment (see on this label). Get medical advice. Wash with plenty of soap and water.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

Ingestion : Obtain emergency medical attention. Call a POISON CENTER or doctor if you feel unwell. Do NOT induce vomiting. Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Danger of serious damage to health by prolonged exposure through inhalation. Fatal if swallowed. May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Section 5: Fire and Explosion Data

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

Section 5: Fire and Explosion Data (Continued)

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Section 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

Section 7: Handling and Storage

7.1. Precautions for safe handling

Handling : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid breathing dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.

Section 7: Handling and Storage (Continued)

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

Section 8: Exposure Controls/Personal Protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

- **Respiratory protection :** In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand protection :** Wear protective gloves.
- **Eye protection :** Chemical goggles or safety glasses.
- **Others :** When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Crystalline
Colour	: White
Odour	: Characteristic.
Molecular Weight	: 263.0

Section 9: Physical and Chemical Properties (Continued)

Odour threshold	: No data available.
pH value	: 9 at 50 g/l at 20 °C
Melting point [°C]	: No data available.
Decomposition point [°C]	: No data available. > 300 °C
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: N/A

Section 10: Stability and Reactivity Data

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Section 10: Stability and Reactivity Data (Continued)

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Section 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity : LD50-rat-oral- 7 mg/kg

- **Inhalation :** Toxic if inhaled.
- **Dermal :** Based on available data, the classification criteria are not met.
- **Ingestion :** Fatal if swallowed.

Corrosion : Based on available data, the classification criteria are not met.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : May cause an allergic skin reaction.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

Section 12: Ecological Information

12.1. Toxicity

Toxicity information : Toxic to aquatic life with long lasting effects.

12.2. Persistence – degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

Section 13: Disposal Considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Hazardous waste due to toxicity.

Section 14: Transport Information

14.1. Land transport (ADR-RID)

Proper shipping name	: SELENATES or SELENITES
UN N°	: 2630
H.I. nr	: 274
ADR - Class	: 6.1
Labelling - Transport	: 6.1 : Toxic substances.
ADR – Group	: I

14.2. Sea transport (IMDG) [English only]

Proper shipping name	: SELENATES or SELENITES
UN N°	: 2630
IMO-IMDG - Class or division	: 6.1 : Toxic substances.
IMO-IMDG - Packing group	: I

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: SELENATES or SELENITES
UN N°	: 2630
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: I

Section 15: Other Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

Section 15: Other Regulatory Information (Continued)

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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