

Section 1: Identification

Product Name Sodium Selenite Powder
Commercial Name Not available.
Product Use Research and product development
Restrictions On Use Not available.

Product Code 50-2663

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Acute toxicity, Oral- Category 2 Acute toxicity, Dusts and Mists Category 3 Skin sensitisation Category 1
CFR 1910.1200 Chronic aquatic toxicity Category 2

Signal Word DANGER

Hazard Statement(s) Fatal if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention Wear eye protection/ face protection P260 - Do not breathe dust/fume/gas/mist/vapors/spray P273 - Avoid release to the environment
Response P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Storage Not available
Disposal Not available

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Sodium selenite powder
% By Weight 100
CAS# 10102-18-8
Molecular Weight 172.94 g/mole
Chemical Formula Na₂-Se-O₃
Synonym(s) Selenious acid, disodium salt

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
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Section 4: First-Aid Measures

Inhalation	Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician immediately.
Symptoms/Effects	
Acute	May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.
Delayed	May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

Immediate Medical Attention

Treat symptomatically.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

None under normal use conditions

Firefighters Special Equipment and Precautions

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

Avoid contact with skin and eyes. Use personal protective equipment as required. Ensure adequate ventilation. Environmental precautions: Do not flush into surface water or sanitary sewer system. Methods and material for containment and cleaning up: Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

Section 7: Handling and Storage

Handling: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Handle product only in closed system or provide appropriate exhaust ventilation. Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work. Storage: Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep locked up.

Section 8: Exposure Controls/Personal Protection**Exposure Limits**

The United Kingdom: STEL: 0.3 mg/m³ 15 min TWA: 0.1 mg/m³ 8 hr

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal Protection

Eye Protection Goggles (European standard - EN 166) Hand Protection Protective gloves Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143 Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted Environmental exposure controls Prevent product from entering drains. Do not allow material to contaminate ground water system

Section 9: Physical and Chemical Properties

Appearance	Beige powder solid.		
Odor	Odorless		
Odor Threshold	Not available.		
Melting Point	350 °C / 662 °F	pH	9 50 g/l aq.sol
Freezing Point	Not available.	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available	Vapor Density	Not available.
Decomposition temperature	>300 °C	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available.
Flash Point	Not applicable.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	950 g/L (20°C)		
Other	Molecular Formula Na ₂ O ₃ Se Molecular Weight 172.94		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal conditions, Moisture sensitive
Hazardous Polymerization	Hazardous polymerization does not occur
Conditions to Avoid	Temperatures above 300°C. Incompatible products. Exposure to moist air or water
Incompatible Materials	Acids. Strong acids
Hazardous Decomposition Products	None under normal use conditions

Section 11: Toxicological Information

RTECS Not available

Acute Toxicity
LD50 Oral: LD50 = 7 mg/kg (Rat)

Skin Corrosion/Irritation
Not available

Serious Eye Damage/Irritation
Not available

Respiratory or Skin Sensitization
Category 1

Germ Cell Mutagenicity
Ames test:; positive

Carcinogenicity
Not available

Reproductive Toxicity
Not available

Routes of Entry
Oral. Inhalation.

Symptoms Related to Exposure
Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Potential Health Effects

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

Target Organ(s) Not available

Section 12: Ecological Information**Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Persistence and Degradability

Soluble in water, Persistence is unlikely, based on information available. Not relevant for inorganic substances Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants

Bioaccumulative Potential

Bioaccumulation is unlikely

Mobility in Soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the environment due to its water solubility.

Highly mobile in soils

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not let this chemical enter the environment

Disposal of Container

Dispose of this container to hazardous or special waste collection point

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

UN number UN2630 UN proper shipping name SELENITES Technical Shipping Name Sodium selenite Transport hazard class(es) 6.1 Packing group I

Section 15: Regulatory Information**Regulations**

SARA Section 302 Extremely Hazardous components and corresponding TPQs: The following components are subject to reporting levels established by SARA Title III, Section 302: Sodium selenite: CAS No.10102-18-8(Revision Date: 2008-11-03) SARA Section 311/312 hazards: Acute Health Hazard SARA Section 313 components: The following components are subject to reporting levels established by SARA Title III, Section 313: Sodium selenite: CAS No.10102-18-8(Revision Date:2008-11-03) California Proposition 65 components: This product does not contain any chemicals known to the State of California to cause birth defects or any other reproductive harm. TSCA: Product is listed on the TSCA Inventory

Other

Not available

Section 16: Other Information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.