

MATERIAL SAFETY DATA SHEET

RML 0374
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SECTION I - IDENTIFICATION

Product Name: Selenite Broth
Formula: Mixture.
Product No.: 45-4581
45-4582
45-4584

SECTION II - HAZARDOUS INGREDIENTS

Material: Sodium Selenite
% Weight: 17
CAS #: 10102-18-8
NFPA Rating: Data not available.

SECTION III - PHYSICAL DATA

Sodium Selenite
Boiling Point: Data not available.
Vapor Pressure: Data not available.
Vapor Density (air=1): Data not available.
Water Solubility: Freely soluble, 47 g/100 ml @ 77°F (25°C)
Appearance and Odor: Fine white to slightly-pinkish powder; odorless.
Melting Point: Decomposes @ 608°F (320°C)
Specific Gravity: Data not available.
% Volatile by Volume: Data not available.
Evaporation Rate (ether=1): Data not available.

SECTION IV - FIRE AND EXPLOSION DATA

Sodium Selenite
Flash Point: Not flammable.
Explosive Limits: LEL-Data not available.
UEL-Data not available.
Extinguishing Media: Carbon dioxide, dry chemical or alcohol foam.
Special Fire-fighting Procedures: Wear self-contained breathing apparatus and protective equipment.
Unusual Fire and Explosive Data: Gives off toxic fumes of selenium dioxide if involved in a fire or heated to 608°F (320°C).

SECTION V - HEALTH HAZARD AND EMERGENCY

Exposure Limits: Sodium Selenite
OSHA TWA: 0.2 mg/M³
ACGIH (TLV) TWA: 0.2 mg/M³
ORAL RAT LD₅₀: 7 mg/kg
Health Hazards DANGER! POISON, MAY BE HARMFUL OR FATAL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. AVOID BREATHING POWDER DUST AND EYE/SKIN CONTACT. Prolonged or repeated skin contact may cause dermatitis. Chronic absorption by any primary route of entry may cause selenosis.
Signs and Symptoms of Exposure: Sodium Selenite; nausea, vomiting, diarrhea, kidney damage, liver damage, selenosis, garlic odor on breath, metallic taste on tongue, coughing difficulty breathing, pulmonary edema, dermatitis, irritation, and watering of eyes.

Primary Routes of Entry/First Aid:

Inhalation: Remove victim to fresh air. Call physician immediately.

Eye/Skin Contact: Flush immediately with copious amounts of water for at least 15 minutes. Remove contaminated clothing. Call Physician.

Ingestion: If victim is conscious, rinse mouth with water, then give plenty of water. Induce vomiting by sticking finger down throat. Call physician immediately. Never give anything by mouth to an unconscious person.

Cancer Status: Sodium Selenite; IARC unclassifiable substance (Group 3-inadequate human or animal evidence).

Medical Conditions Aggravated by Exposure: Persons with pre-existing eye, skin or respiratory disorders may be more susceptible to the effects of this substance.

SECTION VI - REACTIVITY

Stability: Stable.

Incompatibility: Mineral acids, oxidizing agents, reducing agents and organic materials.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Toxic fumes of selenium dioxide.

Conditions to Avoid: Moisture, material is hygroscopic.

SECTION VII - SPILL AND DISPOSAL

Spill Procedures: Wear protective clothing and equipment as specified in Section VIII. Wear self-contained breathing apparatus or respirator with approved NIOSH/MSHA

cartridges. Evacuate area. Scoop up and place in approved hazardous waste container. Ventilate and wash spill site, do not discharge to sewers.

Disposal Procedures: Ensure compliance with all local, state, and federal regulations or contact an approved and licensed disposal agency. Sodium selenite is subject to SARA (TPQ 100#), Clean Water Act (Sect. 311), CERCLA (RQ 100#) and DOT.

SECTION VIII - PROTECTION DATA

Eyes: Chemical safety goggles.

Gloves: Chemical resistant gloves.

Respiratory: Toxic dust particle mask or respirator with approved NIOSH/MSHA cartridges; TWA not less than 0.05 mg/m³ or 2 mppcf.

Ventilation: Mechanical exhaust, fume hood.

Other: Protective apron, gown or coveralls. Safety shower, eye wash.

SECTION IX - HANDLING AND STORAGE

Avoid contact. Do not breath dust or get in eyes, on skin, or on clothing. Wash thoroughly after handling. Very hygroscopic material. Store tightly closed in a dry place below 86°F (30°C).

SECTION X - MISCELLANEOUS DATA

This information is believed to be correct, however no warranties, expressed or implied, are made with respect to such information, and REMEL assumes no liability resulting from use of such information. You should consider this only as a supplement to other data gathered by you, and make independent determinations of the suitability and completeness of information from all sources, to assure proper use and disposal of this product and personnel safety and health. Data for each component is specified where applicable as mixtures have not been tested.