

SODIUM BIASELENITE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: SODIUM BIASELENITE.

Product Code: 428.

CAS#: 7782-82-3.

Synonym: Sodium hydrogen selenite; Sodium hydroselenite.

Chemical Name: Sodium Hydrogen Selenite.

Chemical Formula: NaHSeO₃.

Formula Weight: 150.95.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:

Name: Sodium Hydrogen Selenite.

Toxicological Data on Ingredients:

Acute toxicity, Inhalation (Category 3), H331, R23.

Acute toxicity, Oral (Category 3), H301, R25.

STOT – RE – (Category 2), H373, R33/R48, R20.

Acute aquatic toxicity (Category 1), H400, R50/53.

Chronic aquatic toxicity (Category 1), H410, R50/53.

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not Available.

MUTAGENIC EFFECTS: Not Available.

TERATOGENIC EFFECTS: Not Available.

DEVELOPMENTAL TOXICITY: Not Available. The substance may be toxic to heart. Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin contact: Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation: Not Available.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. **Serious Ingestion:** Not available.

SECTION 5: FIRE FIGHTING MEASURES



Flammability of the Product: Non-flammable.
Auto-Ignition Temperature: Not Applicable.
Flash Points: Not Applicable.
Flammable Limits: Not Applicable.
Products of Combustion: Sodium oxides, Selenium/selenium oxides.
Fire Hazards in Presence of Various Substances: Not Applicable.
Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available.
Fire Fighting Media and Instructions:
SMALL FIRE: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
LARGE FIRE: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Remarks on Fire Hazards: Not Available.
Special Remarks on Explosion Hazards: Not Available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions: Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, acids.
Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: 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.
Personal Protection: Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.
Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits: Not Available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Solid crystal powder
Odor	:	Not available
Color	:	Not available
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available

Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Very Soluble in water

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Dust generation, exposure to moist air or water, incompatible materials.

Incompatibility with various substances: Strong oxidizing agents, Strong acids.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not Available.

Special Remarks on Corrosivity: Not Available.

Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Ingestion, Inhalation.

Toxicity to Animals:

LD₅₀: Oral –Rat – 2.5mg/kg.

Chronic Effects on Humans: Not Available.

Other Toxic Effects on Humans: Not Available.

Special Remarks on Toxicity to Animals: Not Available.

Special Remarks on Chronic Effects on Humans: Not Available.

Special Remarks on other Toxic Effects on Humans: Causes skin irritation with possible burning sensation especially if skin is wet or moist. Causes respiratory tract and mucous membrane irritation with burning sensation and pain in nasal cavities occasional nose bleeding and tickling in the throat. May cause severe gastrointestinal tract irritation with nausea, and vomiting.

May cause cardiac disturbances (slowing of heart rate, arrhythmia, tachycardia, heart fibrillation).

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Available.

BOD and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

DOT Classification: CLASS 6.1: Poisonous material.

Identification: UNNA: 2630: Sodium hydrogen selenite, PG: I.



Special Provisions for Transport: Not Available.

SECTION 15: REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Not Listed. **Other Regulations:** Not available.

Other Classifications:

WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC).

DSCL (EEC): R23/R25/R50-53.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment: Gloves, Lab coat, Safety glasses, Dust respirator - be sure to use an approved/certified respirator or equivalent.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.

H301, R25 –Toxic if swallowed.

H331, R23 –Toxic if inhaled.

H373, R33/R48 –May cause damage to organs through prolonged or repeated exposure.

H400, R50-53 –Very toxic to aquatic life.

H410, R50/53 –Very toxic to aquatic life with long lasting effects
STOT –RE – Specific target organ toxicity – repeated exposure.

Other Special Considerations: Not Available.

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