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MATERIAL SAFETY DATA SHEET

Sodium Biselenite

MSDS Number : 011

Effective Date : 01/20/09

I. Product Identification

Trade Name : Sodium Biselenite
 Synonyms : Sodium hydroselenite, sodium hydrogen selenite
 Chemical Formula : NaHSeO₃
 Molecular Weight : 150.93
 Manufacturer : Pacific Rare Specialty Metals And Chemicals, Inc. (PRSMCI)
 Lot 6 Blk 1, Phase II, West Avenue, Cavite Economic Zone,
 Rosario, Cavite, Philippines, 4106
 Emergency Phone : (+63-02) 784 - 4000
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II. Composition / Information on Components

Sodium Biselenite (CAS# 7782-82-3)
 EINECS/ELINCS 231-966-3

III. Hazard Identification

Flammability Rating : 0 (Not combustible)
 Reactivity Rating : 0 (Not reactive when mixed with water)
 Health Rating : 3 (Poison, toxic by inhalation and if swallowed)
 Contact Rating : 2 (Causes eye and skin irritation)
 Protective Equip : Goggles, Gloves

Caution! Maybe absorbed through intact skin. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Maybe harmful if swallowed. Hygroscopic (absorbs moisture from the air). The Toxicological properties of this material have not been fully investigated.

Potential Health Effects :

Eye : May cause eye irritation.

Skin : May cause skin irritation. Maybe absorbed through the skin.

Inhalation : May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. Effects of inhalation may be delayed.

Ingestion : May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated. Maybe harmful if swallowed.

Chronic : Chronic exposure to selenium may cause central nervous system effects, digestive tract disturbances, pallor, garlic breath.

IV. First - Aid Measures

Inhalation : Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen

Ingestion : If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Skin Contact : Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Notes to Physician : Treat symptomatically and supportively.

V. Fire Fighting Measures

Fire : Not considered to be a fire hazard.

Explosion : Not considered to be an explosion hazard.

Fire Extinguishing Media: For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use water spray, fog or regular foam.

General Information : As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Flash Point : Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower : Not available.

Upper : Not available.

VI. Accidental Release Measures

General Information : Use proper personal protective equipment as indicated in Section 8.

Spills / Leaks : Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

VII. Handling and Storage

Handling : Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash clothing before reuse. Discard contaminated shoes.

Storage : Store in a cool, dry place. Store in a tightly closed container.

VIII. Exposure Controls / Personal Protection

Airborne Exposure Limits : OSHA Final PELs : 0.2 mg/m³ TWA (as Se)
ACGIH : 0.2 mg/m³ TWA (as Se)
(listed under Selenium compounds)
NIOSH : 0.2 mg/m³ TWA (as Se, except Selenium hexafluoride)
(listed under Selenium compounds)

OSHA Vacated PELs : SODIUM HYDROGEN SELENITE: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment:**Skin Protection :**

Wear appropriate protective gloves to prevent skin exposure.

Eye Protection :

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Clothing :

Wear appropriate protective clothing to prevent skin exposure.

Respirators :

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

IX. Physical and Chemical Properties

Appearance	: Solid	Specific Gravity	: Not Available
Color	: Off-white	Melting Point	: Not Available
Odor	: Not available	Boiling Point	: Not Available
Solubility	: soluble in water	Vapor Pressure	: Not Available
Viscosity	: Not available		

X. Stability and Reactivity

Chemical Stability	:	Stable
Hazardous Decomposition Products:	:	Selenium / selenium oxides.
Hazardous Polymerization	:	Will not occur.
Incompatibilities	:	Strong oxidizing agents - strong acids
Conditions to Avoid	:	Incompatible materials, excess heat, exposure to moist air or water

XI. Toxicological Information**RTECS #:**

CAS# 7782-82-3: VS7500000

LD50/LC50:

CAS# 7782-82-3:

Oral, rabbit: LD50 = 8.6 mg/kg;

Oral, rat: LD50 = 2.5 mg/kg

Carcinogenicity:

CAS# 7782-82-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology : No information available.

Teratogenicity : No information available.

Reproductive Effects : No information available.

Mutagenicity : EPA GENETOX PROGRAM 1988, Positive: B subtilis rec assay

Neurotoxicity : No information available.

XII. Ecological Information**Environmental Fate** : No information found.**Environmental Toxicity** : No information found.**XIII. Disposal Considerations**

Chemical waste water generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.**XIV. Transport Information**

Domestic (Land, D.O.T.) :
 Proper Shipping Name: SELENITES
 Hazard Class: 6.1
 UN Number : UN2630
 Packing Group: I

Canada TDG
 Proper Shipping Name: SELENITES
 Hazard Class: 6.1
 UN Number : UN2630
 Packing Group: I

XV. Regulatory Information**US FEDERAL****TSCA**

CAS# 7782-82-3 is not listed on the TSCA inventory. It is for research and development use only.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA

CERCLA Hazardous Substances and corresponding RQs

CAS# 7782-82-3: 100 lb final RQ; 45.4 kg final RQ

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313

This material contains SODIUM HYDROGEN SELENITE (listed as Selenium compounds), 100%, (CAS # 7782-82-3) which is subject to the reporting requirements of Section 313 of SARA Title III and 40

CFR

Part 373.

Clean Air Act:

CAS# 7782-82-3 (listed as Selenium compounds) is listed as a hazardous air pollutant (HAP).

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 7782-82-3 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 7782-82-3 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 7782-82-3 can be found on the following state right to know lists: California, (listed as Selenium Compounds), New Jersey, Pennsylvania, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T

Risk Phrases: R 23 / 25 Toxic by inhalation and if swallowed
R 33 Danger of cumulative effects.

Safety Phrases:

S 20 / 21 When using do not eat, drink or smoke.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 28A After contact with skin, wash immediately with plenty of water

WGK (Water Danger / Protection)

CAS# 7782-82-3: No information available.

Canada - DSL / NDSL

None of the chemicals in this product are listed on the DSL / NDSL list.

Canada - WHMIS

Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 7782-82-3 (listed as Selenium compounds) is listed on the Canadian Ingredient Disclosures List.

XVI. Other Information

Disclaimer:

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