

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

**MATERIAL SAFETY DATA SHEET (MSDS)****SODIUM BISELENITE (SODIUM HYDROGEN SELENITE)****1 - Chemical Product**

MSDS Name:Sodium hydrogen selenite  
Synonym:Sodium hydroselenite: sodium biselenit

Cas NO:7782-82-3

Product Coad: S0186101000

Molecular Formula: HNaO<sub>3</sub>Se  
Molecular Weight: 150.96

**2 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	content	EINECS#
7782-82-3	SODIUM HYDROGEN SELENITE	100%	231-966-3

**3 - HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

Toxic by inhalation and if swallowed. Danger of cumulative effects.The toxicological properties of this material have not been fully investigated.Hygroscopic (absorbs moisture from the air).

**Potential Health Effects**

Eye:May cause eye irritation.

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

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

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

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

**4 - FIRST AID MEASURES**

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

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

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.

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

Notes to Physician:

**5 - FIRE FIGHTING MEASURES**

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.

Extinguishing Media:For small fires, use dry chemical, carbon dioxide, or water spray.

For large fires, use water spray, fog or regular foam.

**6 - 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.

**7 - 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.

**8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

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## MATERIAL SAFETY DATA SHEET (MSDS)

### SODIUM BISELENITE (SODIUM HYDROGEN SELENITE)

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 7782-82-3: United Kingdom, WEL - TWA: (listed as selenium compounds): 0.1 mg TWA (except hydrogen selenide, as Se) United Kingdom, WEL - STEL: (listed as selenium compounds): 0.3 m STEL (except hydrogen selenide, as Se) United States OSHA: 0.2 mg/m<sup>3</sup> TWA (as Se) (listed under Selenium compounds).

Belgium - TWA: (listed as selenium compounds): 0.2 mg/m<sup>3</sup> VLE (as Japan: (listed as selenium compounds): 0.1 mg/m<sup>3</sup> OEL (except SeH<sub>2</sub> SeF<sub>6</sub>, as Se) Malaysia: (listed as selenium compounds): 0.2 mg/m<sup>3</sup> TWA (as Se) Netherlands: (listed as selenium compounds): 0.1 mg/m<sup>3</sup> MAC (as Se Spain: (listed as selenium compounds): 0.1 mg/m<sup>3</sup> VLA-ED (except hydrogen selenide, as Se) Personal Protective Equipment Eyes: 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.

Skin: Wear appropriate protective gloves to prevent skin exposure.

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.

#### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: off-white

Odor: Not available.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: soluble in water

Specific Gravity/Density:

#### 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials: Strong oxidizing agents - strong acids.

Hazardous Decomposition Products: Selenium/selenium oxides.

Hazardous Polymerization: Will not occur.

#### 11 - 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:

SODIUM HYDROGEN SELENITE - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

#### 12 - ECOLOGICAL INFORMATION

#### 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

#### 14 - TRANSPORT INFORMATION

IATA

Shipping Name: SELENITES

Hazard Class: 6.1

UN Number: 2630

Packing Group: I

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**MATERIAL SAFETY DATA SHEET (MSDS)****SODIUM BISELENITE (SODIUM HYDROGEN SELENITE)**

IMO

Shipping Name: SELENITES  
Hazard Class: 6.1  
UN Number: 2630  
Packing Group: I  
RID/ADR  
Shipping Name: SELENITES  
Hazard Class: 6.1  
UN Number: 2630  
Packing group: I  
USA RQ: CAS# 7782-82-3: 100 lb final RQ; 45.4 kg final RQ

**15 - REGULATORY INFORMATION**

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 28A After contact with skin, wash immediately with plenty of water.  
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
WGK (Water Danger/Protection)  
CAS# 7782-82-3: No information available.  
Canada  
None of the chemicals in this product are listed on the DSL/NDSL list.  
CAS# 7782-82-3 is not listed on Canada's Ingredient Disclosure List.  
US FEDERAL  
TSCA  
CAS# 7782-82-3 is not listed on the TSCA inventory.  
It is for research and development use only.

**16: Other Information**

**References:** Laboratory Reagent

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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