

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 SELENITE LR (PENTAHYDRATE)

#### 1: Identification of the substance/mixture and of the company/undertaking

Product name : Sodium selenite pentahydrate  
CAS-No. : 26970-82-1

Product Coad: S0197800100

#### 2: Hazards identification

##### Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Acute toxicity, Oral (Category 2), H300  
Acute toxicity, Inhalation (Category 3), H331  
Skin sensitisation (Category 1), H317  
Chronic aquatic toxicity (Category 2), H411  
For the full text of the H-Statements mentioned in this Section, see Section 16.

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

T+ Very toxic R28  
T Toxic R23  
R31  
R43  
N Dangerous for the environment R51/53  
For the full text of the R-phrases mentioned in this Section, see Section 16.

##### Label elements

##### Labelling according Regulation (EC) No 1272/2008

Pictogram  
Signal word Danger  
Hazard statement(s)  
H300 Fatal if swallowed.  
H317 May cause an allergic skin reaction.  
H331 Toxic if inhaled.  
H411 Toxic to aquatic life with long lasting effects.  
Precautionary statement(s)  
P261 Avoid breathing dust.  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P311 Call a POISON CENTER or doctor/ physician.  
Supplemental Hazard information (EU)  
EUH031 Contact with acids liberates toxic gas.  
**Other hazards - none**

#### 3: Composition/information on ingredients

##### Substances

Formula : Na<sub>2</sub>O<sub>3</sub>Se · 5H<sub>2</sub>O  
Molecular Weight : 263,01 g/mol  
CAS-No. : 26970-82-1  
EC-No. : 233-267-9

##### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Sodium selenite pentahydrate	Acute Tox. 2; Acute Tox. 3;	<= 100 %
	Skin Sens. 1; Aquatic Chronic	
	2; H300, H317, H331, H411,	

##### Sodium selenite pentahydrate

CAS-No. 26970-82-1 Acute Tox. 2; Acute Tox. 3; <= 100 %  
EC-No. 233-267-9 Skin Sens. 1; Aquatic Chronic  
Index-No. 034-003-00-3 2; H300, H317, H331, H411,  
EUH031

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

#### 4: First aid measures

##### Description of first aid measures

**General advice** Consult a physician. Show this safety data sheet to the doctor in attendance.

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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**In case of skin contact** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact** Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed** no data available

#### 5: Firefighting measures

**Extinguishing media**

**Suitable extinguishing media** Dry powder

**Special hazards arising from the substance or mixture** Sodium oxides, Selenium/selenium oxides

**Advice for firefighters** Wear self contained breathing apparatus for fire fighting if necessary.

**Further information** no data available

#### 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

**Reference to other sections** For disposal see section 13.

#### 7: Handling and storage

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

**Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Never allow product to get in contact with water during storage. Do not store near acids.

hygroscopic

**Specific end use(s)** A part from the uses mentioned in section 1.2 no other specific uses are stipulated

#### 8: Exposure controls/personal protection

**Control parameters**

**Components with workplace control parameters**

**Exposure controls**

**Appropriate engineering controls** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

**Personal protective equipment**

**Eye/face protection** Face shield and safety glasses Use equipment for eye protection tested and

approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique

(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Z677272, Size M)

Splash contact

## MATERIAL SAFETY DATA SHEET (MSDS)

### SODIUM SELENITE LR (PENTAHYDRATE)

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9: Physical and chemical properties

#### Information on basic physical and chemical properties

- a) Appearance Form: crystalline
- Colour: white
- b) Odour no data available
- c) Odour Threshold no data available
- d) pH 9 at 50 g/l at 20 °C
- e) Melting point/freezing point no data available
- f) Initial boiling point and no data available boiling range
- g) Flash point not applicable
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits no data available
- k) Vapour pressure no data available
- l) Vapour density no data available
- m) Relative density no data available
- n) Water solubility soluble
- o) Partition coefficient: n-octanol/water no data available
- p) Auto-ignition temperature no data available
- q) Decomposition temperature > 300 °C - temperature
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

#### Other safety information

no data available

### 10: Stability and reactivity

**Reactivity** no data available

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** no data available

**Conditions to avoid** no data available

**Incompatible materials** Strong oxidizing agents, Strong acids

**Hazardous decomposition products** Other decomposition products - no data available

In the event of fire: see section 5

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### SODIUM SELENITE LR (PENTAHYDRATE)

#### 11: Toxicological information

##### Information on toxicological effects

##### Acute toxicity

LD50 Oral - rat - 7 mg/kg

**Skin corrosion/irritation** no data available

**Serious eye damage/eye irritation** no data available

**Respiratory or skin sensitisation**

**Germ cell mutagenicity**

mouse

mammary gland

DNA damage

mouse

mammary gland

DNA inhibition

**Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: A4 - Not classifiable as a human carcinogen (Sodium selenite pentahydrate)

3 - Group 3: Not classifiable as to its carcinogenicity to humans (Sodium selenite pentahydrate)

**Reproductive toxicity**

Reproductive toxicity - mouse - Subcutaneous

Effects on Fertility: Abortion.

Reproductive toxicity - mouse - Subcutaneous

Effects on Newborn: Live birth index (# fetuses per litter; measured after birth).

Developmental Toxicity - mouse - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental

Abnormalities: Musculoskeletal system.

**Specific target organ toxicity - single exposure** no data available

**Specific target organ toxicity - repeated exposure** no data available

**Aspiration hazard** no data available

**Additional Information**

RTECS: VS7420000

Nausea, Dizziness, Headache, anemia, Salivation, Tremors, Alopecia., Vomiting, Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 12: Ecological information

##### Toxicity

Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 4,5 - 12,0 mg/l - 96,0 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 7,9 mg/l - 48 h

other aquatic

invertebrates

Toxicity to algae EC50 - Pseudokirchneriella subcapitata (green algae) - 3,2 - 10,0 mg/l - 72 h

**Persistence and degradability**

no data available

**Bioaccumulative potential** no data available

**Mobility in soil** no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

Toxic to aquatic life with long lasting effects.

#### 13: Disposal considerations

##### Waste treatment methods

**Product** Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging** Dispose of as unused product.

#### 14: Transport information

##### UN number

ADR/RID: 2630 IMDG: 2630 IATA: 2630

##### UN proper shipping name

ADR/RID: SELENITES

IMDG: SELENITES

IATA: Selenites

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**MATERIAL SAFETY DATA SHEET (MSDS)****SODIUM SELENITE LR (PENTAHYDRATE)****Transport hazard class(es)**

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

**Packaging group**

ADR/RID: I IMDG: I IATA: I

**Environmental hazards**

ADR/RID: yes IMDG Marine pollutant: yes IATA: no

**Special precautions for user** no data available**15 - REGULATORY INFORMATION**

N/A

**16. Other Information****Product Use:** Laboratory Reagent.

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

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**End of document**