



Trade name: Natrii selenit pentahydricus

Date revised: 12.05.09

Dangerous substance number: 066529

Version: 1 / CH

Date of printing: 12.05.09

## 01. Identification of the substance/preparation and of the company/undertaking

### Trade name

Natrii selenit pentahydricus

Item-No. 06652900

### Company/undertaking identification

#### Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

Emergency telephone 0041 (0)44 251 51 51

## 02. Hazards identification

### Classification

Classification	T+, R28
	T, R23
	R43
	N, R51/53

### Hazard symbols

T+	Very toxic
N	Dangerous for the environment

### R phrases

23	Toxic by inhalation.
28	Very toxic if swallowed.
31	Contact with acids liberates toxic gas.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 03. Composition / information on ingredients

### Hazardous ingredients

#### Sodium selenite

CAS no. 10102-18-8

EINECS no. 233-267-9

Concentration &gt;= 50 %

Classification	Xi, R43
	T+, R28
	T, R23
	N, R51/53
	R31

## 04. First aid measures

### General information

Adhere to personal protective measures when giving first aid.. Remove contaminated, soaked clothing immediately and dispose of safely.. Irregular breathing/no breathing: artificial respiration.

### After inhalation

Ensure supply of fresh air.. If necessary, give oxygen. If the patient is likely to become unconscious, place and transport in stable sideways position.

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#### **After skin contact**

Wash off immediately with soap and water and rinse well.. Consult a doctor if skin irritation persists.

#### **After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.).. Begin with medical treatment.

#### **After ingestion**

Rinse mouth thoroughly with water.. Do not induce vomiting.. Summon a doctor immediately.

#### **Hints for the physician / symptoms**

Nausea, Vomiting, Gastrointestinal complaints, Diarrhoea, Shortness of breath

#### **Hints for the physician / treatment**

Treat symptomatically

### **05. Fire-fighting measures**

#### **Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet, Extinguish greater fire with water spray or alcohol-resistant foam.

#### **Non Suitable extinguishing media**

Full water jet

#### **Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases**

Development of toxic gases

#### **Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases.; Use self-contained breathing apparatus.; Wear full protective suit.

#### **Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains.

### **06. Accidental release measures**

#### **Personal precautions**

Keep away sources of ignition.. Avoid dust formation.. Use personal protective clothing.. Use breathing apparatus if exposed to vapours/dust/aerosol.

#### **Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

#### **Methods for cleaning up**

Pick up mechanically.. Send in suitable containers for recovery or disposal.. When picked up, treat material as prescribed under heading "Disposal".

### **07. Handling and storage**

#### **Handling**

##### **Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary).. Open and handle container with care.. Avoid dust formation.. Take precautionary measures against electrostatic loading.

##### **Advice on protection against fire and explosion**

Dust can form an explosive mixture with air.. Keep away from sources of ignition - refrain from smoking.

#### **Storage**

##### **Further information on storage conditions**

Keep in a cool place. Protect from light.. Keep container tightly closed, cool and dry.. Do not keep at temperatures above 25 °C.



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## 08. Expose controls/personal protection

### Exposure limit values

#### Sodium selenite

Type	MAK	
Value	0.05	mg/m <sup>3</sup>
Short term exposure limit	0.2	mg/m <sup>3</sup>
Short-term exposure limit	4x15	
Pregnancy group	C	

### General protective and hygiene measures

Observe the usual precautions when handling chemicals. At work do not eat, drink, smoke or take drugs. Do not inhale dust/fumes/mist. Avoid contact with eyes and skin. Keep away from food-stuffs, beverages and feed-stocks.

## Occupational exposure controls

### Respiratory protection

Short term: filter apparatus; At intensive and longer exposition use self-contained breathing apparatus.;  
Short term: filter apparatus, Filter P3

### Hand protection

Protective gloves

Appropriate Material

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Not suitable: leather gloves

Not suitable: gloves made of thick material

### Eye protection

Safety glasses

## 09. Physical and chemical properties

### General information

Form	powder
Colour	white
Odour	characteristic

### Important health, safety and environmental information

#### Flash point

Value °C

Remarks not applicable

#### Boiling point

Remarks not determined

#### Melting point

Remarks not determined

#### pH

Value	9	
Concentration/H <sub>2</sub> O	50	g/l
temperature	20	°C

#### Flammability :

Not ignitable

The product is not dangerous for explosions.



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## 10. Stability and reactivity

### Hazardous decomposition products

None known

### Thermal decomposition

Remarks No decomposition if used as prescribed.

### Other information

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

## 11. Toxicological information

### Acute toxicity / further data

#### Acute oral toxicity

Species	rat		
LD50	7		mg/kg

### Irritant/corrosive effects

#### Irritant effect on skin

Remarks Irritating effects on the skin and mucous membrane.

#### Irritant effect on eyes

Remarks Irritates the eyes.

#### Sensitization

Remarks Possibility of sensitization through skin contact.

## 12. Ecological information

### Fish toxicity

Species	rainbow trout (Oncorhynchus mykiss)		
LC50	8.2		mg/l
Duration of exposure	96	h	

### Daphnia toxicity

Species	Daphnia magna		
EC50	7.9		mg/l
Duration of exposure	48	h	

### Algae toxicity

IC50	96.6		mg/l
Duration of exposure	72	h	

### General information / ecology

Do not allow it to reach ground water, water bodies or sewage system.. Hazard for drinking water supplies.

## 13. Disposal considerations

### Disposal recommendations for the product

Disposal in compliance with local and national regulations.

### Disposal recommendations for packaging

Dispose of as unused product.

## 14. Transport information

### Land transport ADR/RID



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UN number	2630
Class	6.1
Packing group	I
Label	6.1
Technical name	SELENITES
Danger releasing substance	Sodium selenite

**Marine transport IMDG/GGVSee**

UN number	2630
Class	6.1
Packing group	I
Technical name	SELENITES
Danger releasing substance	Sodium selenite

**Air transport ICAO/IATA**

UN number	2630
Class	6.1
Packing group	I
Technical name	SELENITES
Danger releasing substance	Sodium selenite

**15. Regulatory information****Labelling in accordance with EC directives**

The product is classified and labelled in accordance with EC directives/the relevant national laws.

**Hazard symbols**

T+	Very toxic
N	Dangerous for the environment

**Hazardous component(s) to be indicated on label**

contains	Sodium selenite
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**R phrases**

23	Toxic by inhalation.
28	Very toxic if swallowed.
31	Contact with acids liberates toxic gas.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

28.1	After contact with skin, wash immediately with plenty of water.
36/37	Wear suitable protective clothing and gloves.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61	Avoid release to the environment. Refer to special instructions/Safety data sheets.

**16. Other information****R-phrases of the ingredients listed in chapter 3**

23	Toxic by inhalation.
28	Very toxic if swallowed.
31	Contact with acids liberates toxic gas.
43	May cause sensitization by skin contact.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

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