

Safety Data sheet

According to Directive 1907/2006

3525 SODIUM SELENITE GMP

Creation Date: 20/11/2013 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 3525 Product name: SODIUM SELENITE GMP Use of the substance: Analysis and chemical-pharmaceutical production.

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

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

S-phrases

- 28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).
- 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.

Labelling in accordance with directive 1272/2008

**H-phrases**

300 Fatal if swallowed.
330 Fatal if inhaled.
EUH031 Contact with acids liberates toxic gas.
315 Causes skin irritation.
317 May cause an allergic skin reaction.
319 Causes serious eye irritation.
411 Toxic to aquatic life with long lasting effects.

P-phrases

301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
280 Wear protective gloves/protective clothing/eye protection/face protection.
261 Avoid breathing dust/fume/gas/mist/vapours/spray.
273 Avoid release to the environment.

Signal word : DANGER

VERY TOXIC; DANGEROUS FOR ENVIRONMENT

R-phrases:

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

3.Composition/information on ingredients

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 10102-18-8

Molecular Weight: 172,94

Chemical formula: Na_2SeO_3

EC-Index-No.: 034-002-00-8

EC-No.: 233-267-9

R-phrases 23; 31; 51/53; 28; 43

For more information about the R-Phrases text you can consult the paragraph 16

4.First aid measures

Gloves necessity

Help the injured person wearing suitable protective equipment.

After inhalation:

Fresh air

If necessary, artificial respiration

Call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

Call the physician

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

After swallowing:

Drink lots of water
To cause vomit
Call the doctor

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Avoid penetration in superficial or subterranean aquifers

6. Accidental release measures

Person-related precautionary measures:

Avoid contact with the substance

Avoid dust formation

Do not inhale dust

Ventilation in closed spaces

Procedures for cleaning/absorption:

Dry cleaning. Proceed to the elimination of any waste.

Rinse.

To avoid the inert dust formation

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling:

Work under display cabinet extractor

Do not inhale the substance

Storage:

Well closed

In well-ventilated place

Only authorized access to specialized technicians

Storage temperature: without limits

8. Exposure controls/personal protection

Personal protective equipment:

Respiratory protection:

Necessary respiratory protection in the presence of dust

Hand protection:

Needed

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Neither to eat, nor to drink, nor to smoke during the work

Work under extractor

Do not inhale the substance

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Solid

Colour: White

Odour: Characteristic

pH value: 9 (50 g/l H₂O)

Solubility: soluble (water)

log P(ow): -7,33

10. Stability and reactivity

Substances to be avoided:

Strong acids.

Hazardous decomposition products:

Toxic gases.

Further information:

Sensitive to air.

Hygroscopic.

To avoid heating (decomposition).

11. Toxicological information

Acute toxicity:

LD50 (oral, rat): 7 mg/kg; LD₀₁ (intraperitoneal, rat): 5,5 mg/kg; LD₅₀ (oral, rabbit): 2,25 mg/kg

After eye contact:

Irritation

After skin contact:

Irritations

After inhalation:

Vertigo

Irritations of the mucous membranes

Dyspnoea

Pulmonary oedema

After long contact:

Dentals erosions

Loss of hair

Toxic effect in urinary tract

Toxic effect in gastrointestinal tract

Toxic effect in spleen

Toxic effect in marrow

Toxic effect in heart

Toxic effect in nerves

Alteration of the metabolism
Hepatic problems
Kidney problems
Death

After swallowing:

Abdominal cramps
Vomiting
Dermatitis
Bronchopneumonia
Odour of garlic on the breath and sweat
Damage of kidneys
Damage of liver

Further toxicological information:

Other dangerous characteristics are not discarded
Take the usual precautions for handling chemical products

12. Ecological information

Fishes: Onchorhynchuss mykiss LC50: 8,2 mg/l /96 h
Daphnia: Daphnia magna EC50: 7,9 mg/l /48 h
Algae: Selenastrum capricornutum IC50: 96,6 mg/l /72 h
Log P(ow): -7,33
Bioaccumulation: No bioaccumulation is to be expected (log Pow<1).

Other harmful effects:

Highly toxic for aquatic organisms
May cause long-term adverse effects in the aquatic environment
Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 2630
Class: 6.1
Packaging group: I
Correct technical name: SELENATES or SELENITES

Sea transport IMDG

UN: 2630
Class: 6.1/I
Packaging group: I
Correct technical name: SELENATES or SELENITES

Air transport ICAO-IATA-DGR

UN: 2630
Class: 6.1
Packaging group: I
Correct technical name: SELENATES or SELENITES
CAO: 673
PAX: 666

15.Regulatory information

16.Other information

Full text of R phrases mentioned in sections 2 and 3

23 Toxic by inhalation.

31 Contact with acids liberates toxic gas.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

28 Very toxic if swallowed.

43 May cause sensitization by skin contact.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.