

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

1.1. Identification of the substance or mixture

Name: Zinc sulfate heptahydrate p.A.

Article number: LC-4797

CAS-Number: 7446-20-0

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2. Use of the substance/preparation:

- laboratory utilization
- analysis
- research
- fine chemistry

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Eye Dam. 1

Aquatic Acute 1

Aquatic Chronic 1

2.2. Hazard Pictograms



Signal word

Danger

2.3. Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

2.4. Precautionary statements

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Classification (67/548/CEE or 1999/45/CE).

N Dangerous for the environment

Xn Harmful

R50/53

R41

R22

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

3. Composition / information on ingredients

Name: Zinc sulfate heptahydrate

Formula: $ZnSO_4 \cdot 7H_2O$

M.= 287,54

CAS [7446-20-0]

EC number (EINECS): 231-793-3

EC index number: 030-006-00-9

4. First aid measures

4.1. General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2. Inhaling:

Take the person out into the fresh air.

4.3. Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4. Eyes:

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

4.5. Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

5. Firefighting measures

5.1. Suitable fire-extinguishing means:

As appropriate to the environment.

5.2. Fire-fighting means which must NOT be used:

No specific data.

5.3. Special risks:

Incombustible. In the event of fire, toxic fumes may form:

5.4. Protective equipment:

Suitable clothing and footwear.

6. Accidental release measures

- 6.1. Individual precautions:
Do not inhale the dust.
- 6.2. Precautions for care of the environment:
Avoid pollution of the soil, water supplies and drains.
- 6.3. Methods for collection/cleaning:
Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

7. Handling and storage

- 7.1. Handling:
No special indications.
- 7.2. Storage:
Well sealed containers. Dry atmosphere. Room temperature.

8. Exposure controls / personal protection

- 8.1. Technical protective measures:
No special indications.
- 8.2. Exposure limit control:
Data not available.
- 8.3. Respiratory protection:
If dust forms, use suitable respiratory protection.
- 8.4. Hand protection:
Use suitable gloves
- 8.5. Eye protection:
Use suitable goggles.
- 8.6. Individual hygiene measures:
Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.
- 8.7. Environmental exposure controls:
Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid
Colour: White
Granulometry: N/A
Odour: Odourless.
pH: 4 - 6
Melting point/freezing point: 100 °C
Initial boiling point and boiling range: N/A
Flash point: N/A
Flammability (solid, gas): N/A
Upper/lower flammability or explosive limits: N/A
Vapour pressure: N/A
Vapour density: N/A

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Relative density: N/A
Solubility: 960 g/l in water 20 °C
Partition coefficient: n-octanol/water: N/A
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A

10. Stability and reactivity

10.1. Conditions which should be avoided:
High temperatures.

10.2. Matter which should be avoided:
No specific data.

10.3. Hazardous decomposition products:
No specific data.

10.4. Complementary information:
Through heating, the product loses the crystallization water.

11. Toxicological information

11.1. Acute toxicity:
LD L0 oral rbt: 1.914 mg/kg
LD50 oral rat: 2.150 mg/kg
LD50 ipr mus: 75 mg/kg

11.2. Dangerous effects for health:
If dust inhaled: Irritations to the respiratory tracts. Can cause oedemas in the respiratory tract upon contact with the skin: Irritations to the skin and mucosae. Through contact with the eyes: irritations If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause stomach pains vomiting intestinal disorders hypotension alterations of the circulation collapse

12. Ecological information

12.1. Toxicity:
12.1.1 - EC50 test (mg/l):
Fish (Leuciscus Idus) 21 mg/l
Classification:
Extr. toxic
Crustaceans (Daphnia magna) 12 mg/l
Classification:
Extr. toxic
12.1.2. - Receptor medium:
Risk for the water environment
Medium
Risk for the land environment
Low
12.1.3. - Observations:
Acute ecotoxicity in the dumping area.

12.2. Persistence and Degradability:

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

12.3. Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

12.4. Mobility in soil:

Data not available.

12.5. 12.5 Assessment PBT and MPMB:

Data not available.

12.6. 12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

Bactericide effect.

DATA BASED on the components of the preparation.

(Soluble copper compounds)

13. Disposal considerations

13.1. Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2. Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

14. Transport information

14.1. Overland (ADR):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

14.2. By sea (IMDG):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

14.3. By air (ICAI-IATA):

Technical name: Environmentally hazardous substance, solid, n.o.s

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 956 PAX 956

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

16.1. Other precautionary statements

P310 Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

P391 Collect spillage.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s):

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R41 Risk of serious damage to eyes.

R22 Harmful if swallowed.

S-phrase(s):

S46 If swallowed, seek medical advice immediately and show this container or label.

S39 Wear eye/face protection.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S22 Do not breathe dust.

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.