

Revised on: 06.08.2018

Sulfuric acid 98% p.A.

Created on: 06.08.2018

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

### 1.1. Product identifier

**Trade name:** Sulfuric acid 98% p.A.

**Article number:** LC-4798

**CAS number:** 7664-93-9

**REACH Registration Number:** 01-2119458838-20-XXXX

### 1.2. Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

neoFroxx GmbH

Marie-Curie-Str. 3

D-64683 Einhausen

[info@neofroxx.com](mailto:info@neofroxx.com)

**Further information obtainable from:**

Dep. Quality Control

### 1.3. 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:**

Skin Corr. 1A

### 2.2. Label elements:

**Hazard Pictograms:**



**Signal word:**

Danger

**Hazard statements:**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

**Precautionary statements:**

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P308+P310 If exposed or concerned: Immediately call a POISON CENTER or doctor

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

### 2.3. Other hazards:

No further relevant information available.

## 3. Composition / information on ingredients

Name: Sulfuric Acid 95-98%

Formula: H<sub>2</sub>SO<sub>4</sub>

M.= 98,08

CAS [7664-93-9]

EC number (EINECS): 231-639-5

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## 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. In the event sickness persists, seek medical assistance.

### 4.3. Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Take the product out with cotton wool soaked in polyethylene-glycol 400.

### 4.4. Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek medical assistance.

### 4.5. Swallowing:

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

## 5. Firefighting measures

### 5.1. Suitable extinguishing media:

As appropriate to the environment.

### 5.2. Unsuitable extinguishing media:

No specific data.

### 5.3. Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form: SO<sub>x</sub>. Upon contact with metals, hydrogen gas may form (there is a risk of explosion).

### 5.4. Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment.

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures:

Do not inhale the fumes. Avoid contact with the skin, eyes or clothing. Ensure adequate ventilation.

### 6.2. Environmental precautions:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

### 6.3. Methods and material for containment and cleaning up:

Collect up with absorbent materials (General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with diluted sodium hydroxide.

## 7. Handling and storage

### 7.1. Precautions for safe handling:

No special indications.

### 7.2. Conditions for safe storage, including any incompatibilities:

Well sealed containers. In well ventilated premises.

Recommended storage temperature: Room temperature. Do not store in metal containers.

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## 8. Exposure controls / personal protection

### 8.1. Exposure controls:

Ensure good ventilation and renewal of the air in the premises.

### 8.2. Control parameters:

VLA-EC: 3 mg/m<sup>3</sup> VLA-ED(H<sub>2</sub>SO<sub>4</sub>): 1 mg/m<sup>3</sup>

### 8.3. Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter P.

### 8.4. Hand protection:

Use suitable gloves neopren PVC

### 8.5. Eye/face 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: liquid

Colour: Colourless

Granulometry: N/A

Odour: odourless

pH: 0,3 at 49 g/l 25 °C

Melting point/freezing point: -20 °C

Initial boiling point and boiling range: ca. 335 °C at 1.013 hPa

Flash point: N/A

Flammability (solid, gas): N/A

Upper/lower flammability or explosive limits: N/A

Vapour pressure: 0,0001 hPa (20 °C)

Vapour density: ca. 3,4

Relative density: (20/4) 1,84 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: N/A

## 10. Stability and reactivity

### 10.1. Conditions to avoid:

The product is chemically stable under standard ambient conditions (room temperature).

### 10.2. Incompatible materials:

Water. (Caution! Heat is generated). Alkaline compounds. Alkaline metals. Ammonia. Alkali-earth compounds. Alkaline solutions. Acids. Metals and metal alloys. Phosphorus. Phosphorus Oxides.

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Hydrides. Halogen halides. Salts of oxyhalogenic acids. Nitrates. Carbides. Organic solvents. Flammable substances. Acetylides. Nitriles. Nitrogen organic compounds. Anilines. Peroxides. Picrates. Nitrides. Lithium silicide.

10.3. Hazardous decomposition products:  
Toxic gases.

10.4. Chemical stability:  
Hygroscopic. Corrosive

## 11. Toxicological information

11.1. Acute toxicity:  
LD50 oral rat: 2.150 mg/kg  
LC50 inh rat: 510 mg/m<sup>3</sup> 2h

11.2. Dangerous effects for health:  
If fumes inhaled: Irritations to the respiratory tracts. Very corrosive substance.  
Upon contact with the skin: Causes burns  
Through contact with the eyes: burns, blindness (irreversible injury of the optic nerve)  
If swallowed: Burns in the digestive apparatus, Severe pains, with risk of perforation. May cause: nausea, vomiting, diarrhea. After a period of latency: pylorostenosis.

## 12. Ecological information

12.1. Toxicity:  
No information available.

12.2. Persistence and Degradability:  
No information available.

12.3. Bioaccumulative potential:  
No information available.

12.4. Mobility in soil:  
No information available.

12.5. Assessment PBT and MPMB:  
No information available.

12.6. Other adverse effects:  
Highly corrosive product.  
There is danger in the event of uncontrolled dumping (in either rivers or water channels).

## 13. Disposal considerations

13.1. Waste treatment methods:  
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.

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#### 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: SULPHURIC ACID with more than 51% acid

UN 1830

Class: 8

Packaging group: II (E)

#### 14.2. By sea (IMDG):

Technical name: SULPHURIC ACID with more than 51% acid

UN 1830

Class: 8

Packaging group: II

#### 14.3. By air (ICAI-IATA):

Technical name: Sulphuric acid

UN 1830

Class: 8

Packaging group: II

Packaging instructions: CAO 855 PAX 851

## 15. Regulatory information

The substance is subject to Regulation (EC) No 273/2004 of the European Parliament and of the Council, of 11 February 2004 on drug precursors, Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors, Commission Regulation (EC) No 1277/2005 of 27 July 2005 laying down implementing rules for Regulation (EC) No 273/2004 of the European Parliament and of the Council on drug precursors and for Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.

## 16. Other information

#### Other precautionary statements:

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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