

**SULFURIC ACID 1.0 mol/l 2N**

Date 15.6.2023

Previous date: 4.4.2011

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

SULFURIC ACID 1.0 mol/l 2N

**1.1.2 Product code**FF657 5 L, FF194 500 ML, FF194 1 L, FF657 2 L  
UFI TPH0-N0DS-Y00X-5XNQ**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

Laboratory chemical

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**

Oy FF-Chemicals Ab

**Street address**

Teollisuustie 4

**Postcode and post office**

FI-90830 HAUKIPUDAS

Finland

**Telephone**

+358 8 5563 193

**Telefax**

+358 8 5563 194

**Business ID**

05851808

**Email**

ffc@ff-chemicals.fi

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**

Please contact the Emergency Centre in your own country.

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Skin Irrit. 2, H315

Eye Irrit. 2, H319

**2.2 Label elements****1272/2008 (CLP)**

GHS07

Signal word

**Warning****Hazard Statements**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

**Precautionary Statements**

P305+P351+P338

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

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

CAS/EC and EINECS

Reg.number

Chemical name of the  
substance

Concentration Classification

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7664-93-9

231-639-5

Sulphuric acid

9,8 %

Skin Corr. 1A, H314

SCL:

Eye Irrit. 2; H319: 5 % ≤ C &lt; 15 %

Skin Corr. 1A; H314: C ≥ 15 %

Skin Irrit. 2; H315: 5 % ≤ C &lt; 15 %

%

**3.3 Other information**

The full text of hazard statements are given in chapter 16.

**4. FIRST AID MEASURES****4.1 Description of first aid measures**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**4.1.2 Inhalation**

Move into fresh air. If symptoms persist, call a physician.

**4.1.3 Skin contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

**4.1.4 Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**4.1.5 Ingestion**

Get immediate medical advice/attention. Rinse mouth. Do NOT induce vomiting. Don't give anything to eat or drink if to an unconscious person. If medical advice is needed, have product container or label at hand.

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

Causes skin irritation. Causes serious eye irritation.

**4.3 Indication of immediate medical attention and special treatment needed**

Symptomatic treatment.

**5. FIREFIGHTING MEASURES****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Choose extinguishing media suitable for surrounding materials.

**5.1.2 Extinguishing media which must not be used for safety reasons**

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters**

Wear chemical protective suit and pressurized respirator. In the event of fire and/or explosion do not breathe fumes.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ventilate the area. Use personal protective equipment.

**6.2 Environmental precautions**

Prevent entry into drains, sewers, soil or watercourses.

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

Absorb in suitable absorption material and collect for disposal. Clean surfaces and ventilate the area.

**6.4 Reference to other sections**

For disposal see section 13.

**7. HANDLING AND STORAGE**

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**7.1 Precautions for safe handling**

Avoid inhaling the product. Avoid contact with eyes, skin and clothing. Use fume hood or and personal protection equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

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

Keep container tightly closed. Store at room temperature.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Threshold limits**

7664-93-9	Sulphuric acid	0.05 mg/m <sup>3</sup> (8 h)	0.1 mg/m <sup>3</sup> (15 min)
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**8.1.2 Other information on limit values**

Finnish limit value above.

**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Take off contaminated clothing, clean before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.

**8.2.2 Individual protection measures****8.2.2.1 Respiratory protection**

Respiratory protection complying with EN 143

**8.2.2.2 Hand protection**

Protective gloves EN 374

**8.2.2.3 Eye/face protection**

Tight-sitting goggles

**8.2.2.4 Skin protection**

Laboratory coat

**8.2.3 Environmental exposure controls**

Prevent product from entering drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Liquid, clear, colourless

**9.1.2 Odour**

Odourless

**9.1.3 Odour threshold**

No information available.

**9.1.4 pH**

~ 1 (20 °C)

**9.1.5 Melting point/freezing point**

No information available.

**9.1.6 Initial boiling point and boiling range**

No information available.

**9.1.7 Flash point**

No information available.

**9.1.8 Evaporation rate**

No information available.

**9.1.9 Flammability (solid, gas)**

No information available.

**9.1.10 Explosive properties****9.1.10.1 Lower explosion limit**

No information available.

**9.1.10.2 Upper explosion limit**

No information available.

**9.1.11 Vapour pressure**

No information available.

**9.1.12 Vapour density**

No information available.

**9.1.13 Relative density**

No information available.

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<b>9.1.14 Solubility(ies)</b>	
<b>9.1.14.1 Water solubility</b>	Soluble in water.
<b>9.1.15 Partition coefficient: n-octanol/water</b>	No information available.
<b>9.1.16 Auto-ignition temperature</b>	No information available.
<b>9.1.17 Decomposition temperature</b>	No information available.
<b>9.1.18 Viscosity</b>	No information available.
<b>9.1.19 Explosive properties</b>	No information available.
<b>9.1.20 Oxidising properties</b>	No information available.
<b>9.2 Other information</b>	
	No information available.

**10. STABILITY AND REACTIVITY**

- 10.1 Reactivity**  
Stable in normal conditions.
- 10.2 Chemical stability**  
Stable in normal conditions.
- 10.3 Possibility of hazardous reactions**  
Contact with metals liberates hydrogen gas.
- 10.4 Conditions to avoid**  
Decomposes on heating.
- 10.5 Incompatible materials**  
Organic materials, metals, reducing agents, bases, alkaline earth metals
- 10.6 Hazardous decomposition products**  
In the event of fire: see section 5.

**11. TOXICOLOGICAL INFORMATION**

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**  
Based on available data the classification criteria are not met.
- 11.1.2 Irritation and corrosion**  
Causes skin irritation. Causes serious eye irritation.
- 11.1.3 Sensitisation**  
Based on available data the classification criteria are not met.
- 11.1.4 Subacute, subchronic and prolonged toxicity**  
Based on available data the classification criteria are not met.
- 11.1.5 STOT-single exposure**  
Based on available data the classification criteria are not met.
- 11.1.6 STOT-repeated exposure**  
Based on available data the classification criteria are not met.
- 11.1.7 Aspiration hazard**  
Based on available data the classification criteria are not met.
- 11.1.8 Other information on acute toxicity**  
This product does not contain any known or suspected endocrine disruptors.

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
Based on available data, the classification criteria are not met.

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**12.2 Persistence and degradability****12.2.1 Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

Accumulation not expected.

**12.4 Mobility in soil**

Mobile, water solution.

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Prevent entry into drains, sewers, soil or watercourses.

This product does not contain any known or suspected endocrine disruptors.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**14. TRANSPORT INFORMATION****14.1 UN number**

UN2796

**14.2 UN proper shipping name**

SULPHURIC ACID

**14.3 Transport hazard class(es)**

8

**14.4 Packing group**

II

**14.5 Environmental hazards**

No

**14.6 Special precautions for users**

No data available.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Take note of Dir 94/33/EC on the protection of young people at work.

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

**15.2 Chemical safety assessment**

Chemical Safety Assessment/Reports (CSA/CSR) is not available for this substance.

**16. OTHER INFORMATION****16.1 Additions, Deletions, Revisions**

1.1.2, 1.4.1, 3.2, 4.1.2, 4.15, 4.3, 5.1.2, 6.3, 7.1, 7.3, 8.2.1, 9.2, 10.6, 11.1.8, 12.1.1, 12.4, 12.5, 12.6, 13.1, 15.1, 16.1, 16.3, 16.6

**16.3 Key literature references and sources for data**

ECHA C&L Inventory

Publication HTP Values 2020 Ministry of Social Affairs and Health

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**16.4 Classification procedure**

Harmonized classification according to CLP regulation

**16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

**16.6 Training advice**

Handling of hazardous chemicals.

**16.8 Additional information available from:**

Oy FF-Chemicals Ab, Finland, tel. +358 8 5563 193

ffc@ff-chemicals.fi

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.