

Sulfuric Acid, solution 35% (w/v)

Date 9.6.2014

Previous date: 21.6.2011

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

1.1.1 Commercial Product Name
Sulfuric Acid, solution 35% (w/v)

1.1.2 Product code
FF2288 1 L

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

MP0112 - Laboratory use: R&D laboratory use

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

Oy FF-Chemicals Ab

P.O.Box

Teollisuustie 4

Postcode and post office

FI-90830 Haukipudas

Finland

Telephone

+358 (0)8 5563 193

Telefax

+358 (0)8 5563 194

Email

ffc@ff-chemicals.fi

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

Emergency telephone number 112

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

Skin Corr. 1A, H314

67/548/EEC - 1999/45/EC

C; R35

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

GHS05

Signal word

Danger**Hazard Statements**

H314

Causes severe skin burns and eye damage.

Precautionary Statements

P280

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

P301+P330+P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

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

CAS/EC and Reg. number
7664-93-9

Chemical name of the substance
Sulfuric acid...%

Concentration Classification

35 %

C; R35

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4. FIRST AID MEASURES**4.1 Description of first aid measures****4.1.2 Inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products. 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. 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

Rinse mouth. Do not induce vomiting without medical advice. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

4.3 Indication of immediate medical attention and special treatment needed

IF exposed or concerned: Immediately call a POISON CENTER or doctor/physician.

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Extinguishing media which must not be used for safety reasons

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5.2 Special hazards arising from the substance or mixture

Burning produces irritant fumes.

5.3 Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

5.4 Specific methods

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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

Should not be released into the environment. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

4, 8, 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe vapours/dust.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store at room temperature.

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7.3 Specific end use(s)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Threshold limits**7664-93-9 Sulfuric acid 0,2 mg/m³ (8 h) 1 mg/m³ (15 min)**8.1.2 Other information on limit values**

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8.1.3 Limit values in other countries

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8.1.4 DNELs

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8.1.5 PNECs

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8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Provide adequate ventilation. Remove and wash contaminated clothing before re-use. 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

Acid-resistant protective gloves.

8.2.2.3 Eye/face protection

Safety glasses with side-shields.

8.2.2.4 Skin protection

Lab 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, colourless, clear.

9.1.2 Odour odourless**9.1.3 Odour threshold** -**9.1.4 pH** < 1 (1 %)**9.1.5 Melting point/freezing point** no data available**9.1.6 Initial boiling point and boiling range** 295 - 315 °C**9.1.7 Flash point** -**9.1.8 Evaporation rate** no data available**9.1.9 Flammability (solid, gas)** -**9.1.10 Explosive properties****9.1.10.1 Lower explosion limit** -**9.1.10.2 Upper explosion limit** -**9.1.11 Vapour pressure** < 0,01 hPa**9.1.12 Vapour density** 1,84 kg/m³

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9.1.13	Relative density	no data available
9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	soluble
9.1.14.2	Fat solubility (solvent - oil to be specified)	no data available
9.1.15	Partition coefficient: n-octanol/water	no data available
9.1.16	Auto-ignition temperature	no data available
9.1.17	Decomposition temperature	no data available
9.1.18	Viscosity	23 mPas (dynaaminan, 20 °C)
9.1.19	Explosive properties	-
9.1.20	Oxidising properties	-
9.2	Other information	-

10. STABILITY AND REACTIVITY

10.1	Reactivity	No information available.
10.2	Chemical stability	The product is chemically stable.
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	-

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
11.1.1	Acute toxicity	LC50/inhalation/ h/rat = 510 mg/m ³ Information refers to the main component.
11.1.2	Irritation and corrosion	Causes severe skin burns and eye damage.
11.1.3	Sensitisation	-
11.1.4	Subacute, subchronic and prolonged toxicity	-
11.1.5	STOT-single exposure	-
11.1.6	STOT-repeated exposure	-
11.1.7	Aspiration hazard	-
11.1.8	Other information on acute toxicity	-

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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
No data is available on the product itself.
- 12.1.2 Toxicity to other organisms**
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- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
The methods for determining biodegradability are not applicable to inorganic substances.
- 12.2.2 Chemical degradation**
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- 12.3 Bioaccumulative potential**
Bioaccumulation is unlikely.
- 12.4 Mobility in soil**
Highly mobile in soils
- 12.5 Results of PBT and vPvB assessment**
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- 12.6 Other adverse effects**
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13. DISPOSAL CONSIDERATIONS

160506 - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

- 13.1 Waste treatment methods**
- 13.2 Waste from residues / unused products**
The product has to be disposed of as laboratory chemical in accordance with local regulations.

14. TRANSPORT INFORMATION

	Land transport ADR/RID	Sea transport IMDG/IMO	Air transport ICAO/IATA
14.1 UN number	2796	2796	
14.2 UN proper shipping name	SULPHURIC ACID	SULPHURIC ACID	
14.3 Transport hazard class(es)	8	8	
14.4 Packing group	II	II	
14.5 Environmental hazards			
Other information			

- 14.6 Special precautions for users**
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1. HTP-arvot 2014

15.2 Chemical safety assessment

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16. OTHER INFORMATION

16.2 Key or legend to abbreviations and acronyms

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16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008

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

R35 Causes severe burns.

16.6 Training advice

Provide adequate information, instruction and training for operators.

16.7 Recommended restrictions

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16.8 Additional information available from:

Oy FF-Chemicals Ab, 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.