

SILKOSTAT 9210 R1

Date 21.11.2011

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

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1.1.2 Product code

FF2410 1 L, FF2410 2 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 Irrit. 2, H315

Eye Irrit. 2, H319

67/548/EEC - 1999/45/EC

Xi; R36/38

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.

P280

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

P337+P313

If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

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

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CAS/EC and Reg. number	Chemical name of the substance	Concentration Classification	
7664-93-9	Sulphuric acid	8 %	C; R35 Skin Corr. 1A

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 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. 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

Rinse mouth with water. Immediately call a POISON CENTER or doctor/physician.

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

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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

Exposure to decomposition products may be a hazard to health.

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

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- 7.1 Precautions for safe handling**
Use ventilation adequate to exhaust vapours. See the safety datasheet.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep container tightly closed. Store at room temperature.
- 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 Sulphuric 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.
- 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. Eye wash bottle with pure water.
- 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
- 9.1.4 pH** ~ 1 (20 °C)
- 9.1.5 Melting point/freezing point** no data available
- 9.1.6 Initial boiling point and boiling range** no data available
- 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** -

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9.1.11	Vapour pressure	no data available
9.1.12	Vapour density	no data available
9.1.13	Relative density	1,083 kg/l
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	no data available
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**
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11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
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- 11.1.1 Acute toxicity**
No adverse effect has been observed in acute toxicity tests.
- 11.1.2 Irritation and corrosion**
Causes skin irritation. Causes serious eye irritation.
- 11.1.3 Sensitisation**
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- 11.1.4 Subacute, subchronic and prolonged toxicity**
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- 11.1.5 STOT-single exposure**
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- 11.1.6 STOT-repeated exposure**
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- 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 information on ecology is available.
- 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**
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- 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.
- 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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- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.
- 16.6 Training advice**
Provide adequate information, instruction and training for operators.
- 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.