

**CERIUMSULFATE 0,1 mol/l (0,1 N)**

Date 23.6.2011

Previous date: -

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

CERIUMSULFATE 0,1 mol/l (0,1 N)

**1.1.2 Product code**

FF021 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&amp;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**

This product is a mixture. Health hazard information is based on its components.

**1272/2008 (CLP)**

Eye Dam. 1, H318

Skin Irrit. 2, H315

**67/548/EEC - 1999/45/EC**

Xn; R36/38

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

GHS05

Signal word

**Danger****Hazard Statements**

H318

Causes serious eye damage.

H315

Causes skin irritation.

**Precautionary Statements**

P280

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

P305+P351+P338

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

P302+P352

IF ON SKIN: Wash with plenty of soap and water.

**2.3 Other hazards****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	
10294-42-5	Cerium(IV)sulfate tetrahydrate	ca. 4 %	Xi ; R36/38 Eye irrit. 2; H319, Skin irrit 2; H315
7664-93-9	sulphuricacid...%	2,9 %	C; R35; Skin Corr. 1A, H314

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

If breathed in, move person into fresh air.

**4.1.3 Skin contact**

In case of contact, immediately flush skin with plenty of water. Get medical attention immediately if irritation develops and persists.

**4.1.4 Eye contact**

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**4.1.5 Ingestion**

Rinse mouth with water. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

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

Causes serious eye damage. Irritating to skin.

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

**5.2 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.

**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**

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.

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**7.3 Specific end use(s)****8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.1 Threshold limits**7664-93-9 sulphuricacid...% 0,2 mg/m<sup>3</sup> (8 h) 1 mg/m<sup>3</sup> (15 min)**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, yellow-orange

**9.1.2 Odour**

odourless

**9.1.3 Odour threshold**

no data available

**9.1.4 pH**

no data available

**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**

no data available

**9.2 Other information****10. STABILITY AND REACTIVITY****10.1 Reactivity**

no data available

**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

No information available.

**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**  
No data is available on the product itself.
- 11.1.1 Acute toxicity**  
LD50/oral/rat = 2140 mg/kg ( Sulphuric acid)
- 11.1.2 Irritation and corrosion**  
Causes skin irritation. Causes serious eye damage.

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**  
No information on ecology is available.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**  
The methods for determining biodegradability are not applicable to inorganic substances.
- 12.3 Bioaccumulative potential**  
Bioaccumulation is unlikely.
- 12.4 Mobility in soil**
- 12.5 Results of PBT and vPvB assessment**
- 12.6 Other adverse effects**

**13. DISPOSAL CONSIDERATIONS**

- 13.1 Waste treatment methods**  
160506 - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

**14. TRANSPORT INFORMATION**

	<b>Land transport ADR/RID</b>	<b>Sea transport IMDG/IMO</b>	<b>Air transport ICAO/IATA</b>
<b>14.1 UN number</b>	3264	3264	
<b>14.2 UN proper shipping name</b>	CORROSIVE LIQUID,ACIDIC,INORGANIC, O.S.(sulphuric acid)	CORROSIVE LIQUID,ACIDIC,INORGANIC, O.S.(sulphuric acid)	
<b>14.3 Transport hazard class(es)</b>	8	8	
<b>14.4 Packing group</b>	II	II	
<b>14.5 Environmental hazards</b>			
<b>Other information</b>			

- 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 2009.
- 15.2 Chemical safety assessment**

**16. OTHER INFORMATION**

- 16.4 Classification procedure**  
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**  
R34 Causes burns.
- 16.6 Training advice**  
Provide adequate information, instruction and training for operators.
- 16.7 Recommended restrictions**  
Not specific restrictions.
- 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.