

**HYDROCHLORIC ACID 0,001 mol/l**

Date 26.3.2012

Previous date: -

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

HYDROCHLORIC ACID 0,001 mol/l

**1.1.2 Product code**

FF6290 20 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 substance is not classified as dangerous according to European Union legislation.

**2.2 Label elements**

Not a dangerous substance according to GHS.

**2.3 Other hazards**

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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and Reg. number****Chemical name of the substance****Concentration Classification**

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Hydrochloric acid....%

&lt; 10 %

C; R34;Xi; R37

Skin Corr. 1B; STOT SE 3

**3.3 Other information**

For explanation of abbreviations see section 16.

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

Consult a physician after significant exposure.

**4.1.2 Inhalation**

Move the victim to fresh air. If symptoms persist, call a physician.

**4.1.3 Skin contact**

Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

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- 4.1.4 Eye contact**  
Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if irritation develops and persists.
- 4.1.5 Ingestion**  
Do NOT induce vomiting. Rinse mouth. Consult a physician.
- 4.2 Most important symptoms and effects, both acute and delayed**  
slight irritation
- 4.3 Indication of immediate medical attention and special treatment needed**  
Treat symptomatically.

**5. FIREFIGHTING MEASURES**

Not combustible.

- 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**  
Thermal decomposition can lead to release of irritating gases and vapours.
- 5.3 Advice for firefighters**  
Special protective equipment for fire-fighters.
- 5.4 Specific methods**  
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**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Provide adequate ventilation. Wear suitable gloves and eye/face protection.
- 6.2 Environmental precautions**  
Should not be released into the environment.
- 6.3 Methods and materials for containment and cleaning up**  
Soak up with inert absorbent material and dispose of as hazardous waste.
- 6.4 Reference to other sections**  
8, 13.

**7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Avoid inhalation, ingestion and contact with skin and eyes. Ensure adequate ventilation.
- 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**
- |                   |                |                                |
|-------------------|----------------|--------------------------------|
| Hydrochloric acid | 5 ppm (15 min) | 7,6 mg/m <sup>3</sup> (15 min) |
|-------------------|----------------|--------------------------------|

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**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**

Handle in accordance with good industrial hygiene and safety practice. Provide adequate ventilation.

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

Use respirator when performing operations involving potential exposure to vapour of the product.

**8.2.2.2 Hand protection**

Acid-resistant protective gloves.

**8.2.2.3 Eye/face protection**

Tightly fitting safety goggles

**8.2.2.4 Skin protection**

Lab coat

**8.2.3 Environmental exposure controls**

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

Liquid, clear, colourless.

**9.1.2 Odour**

stinging

**9.1.3 Odour threshold**

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**9.1.4 pH**

&lt; 0,1

**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**

not applicable

**9.1.8 Evaporation rate**

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**9.1.9 Flammability (solid, gas)**

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

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**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**

0,997 kg/l

**9.1.14 Solubility(ies)****9.1.14.1 Water solubility**

completely soluble

**9.1.15 Partition coefficient: n-octanol/water**

no data available

**9.1.16 Auto-ignition temperature**

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**9.1.17 Decomposition temperature**

no data available

**9.1.18 Viscosity**

no data available

**9.1.19 Explosive properties**

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**9.1.20 Oxidising properties**

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**9.2 Other information**

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

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**10.2 Chemical stability**

The product is chemically stable.

**10.3 Possibility of hazardous reactions**

This information is not available.

**10.4 Conditions to avoid**

Do not heat the product.

**10.5 Incompatible materials**

Strong oxidizing agents. Reducing agents. Bases. Metals.

**10.6 Hazardous decomposition products**

Gaseous hydrogen chloride (HCl).

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

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**11.1.2 Irritation and corrosion**

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**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**

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**11.1.8 Other information on acute toxicity**

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Aquatic toxicity**

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**12.2 Persistence and degradability****12.2.2 Chemical degradation**

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**12.3 Bioaccumulative potential**

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**12.4 Mobility in soil**

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**12.5 Results of PBT and vPvB assessment****12.6 Other adverse effects**

Do not flush into surface water or sanitary sewer system.

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**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>			
<b>14.2 UN proper shipping name</b>			
<b>14.3 Transport hazard class(es)</b>			
<b>14.4 Packing group</b>			
<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****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
WEL substance**15.2 Chemical safety assessment**  
-**16. OTHER INFORMATION****16.3 Key literature references and sources for data**

REGULATION (EC) No 1272/2008

**16.4 Classification procedure**

REGULATION (EC) No 1272/2008

**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.