

Hydrochloric acid 1 mol/l

Date 22.1.2021

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 1 mol/l

1.1.2 Product code

FF226 1 L, FF227 5 L, FF454 10 L, FF454 20 L, FF6179 5 L

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**

The product is not classified as hazardous according to EU legislation.

2.2 Label elements

-

2.3 Other hazards

-

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

Hydrochloric acid...%

Concentration Classification

< 10 %

Skin Corr. 1B, H314; STOT SE 3,
H335**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****4.1.2 Inhalation**

Move into fresh air.

4.1.3 Skin contact

Flush skin immediately with plenty of water.

4.1.4 Eye contact

Rinse immediately with plenty of water also under eye lids. Contact an ophthalmologist if irritation persists.

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4.1.5 Ingestion

If conscious, rinse mouth with water. Give immediately water to drink (no more than 2 glasses). Call a POISON CENTER or doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

Nonflammable.

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

No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

5.3 Advice for firefighters

Wear chemical protective suit and pressurized respirator.

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

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6.2 Environmental precautions

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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

4, 8, 13.

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

Handle with good practice and according to safety instructions.

7.2 Conditions for safe storage, including any incompatibilities

Store at room temperature. Keep only in original container.

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)
Finland

7,6 mg/m³ (15 min)

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Handle with good practice and according to safety instructions. Wash hands after working.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Respiratory protection when vapours or mist may be discharged in work place air.

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- 8.2.2.2 Hand protection**
Protective gloves (EN 374).
- 8.2.2.3 Eye/face protection**
Goggles (European standard - EN 166).
- 8.2.2.4 Skin protection**
Laboratory 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
- 9.1.2 Odour** No information available.
- 9.1.3 Odour threshold** No information available.
- 9.1.4 pH** No information available.
- 9.1.5 Melting point/freezing point** ~0 °C
- 9.1.6 Initial boiling point and boiling range** ~100 °C
- 9.1.7 Flash point** Nonflammable.
- 9.1.8 Evaporation rate** No information available.
- 9.1.9 Flammability (solid, gas)** -
- 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.
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility** Soluble in water.
- 9.1.14.2 Fat solubility (solvent - oil to be specified)** No information available.
- 9.1.15 Partition coefficient: n-octanol/water** No information available.
- 9.1.16 Auto-ignition temperature** Not applicable.
- 9.1.17 Decomposition temperature** No information available.
- 9.1.18 Viscosity** No information available.
- 9.1.19 Explosive properties** Explosion not expected.
- 9.1.20 Oxidising properties** -
- 9.2 Other information**
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10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
No information available.
- 10.2 Chemical stability**
Stable in normal conditions.
- 10.3 Possibility of hazardous reactions**
Not reported when stored and handled according to regulations.
- 10.4 Conditions to avoid**
N/A

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- 10.5 Incompatible materials**
No information available.
- 10.6 Hazardous decomposition products**
No information available.

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**
No information available about the acute toxicity of the product. Not classified.
- 11.1.2 Irritation and corrosion**
Not classified.
- 11.1.3 Sensitisation**
Not classified.
- 11.1.4 Subacute, subchronic and prolonged toxicity**
Not classified.
- 11.1.5 STOT-single exposure**
Not classified.
- 11.1.6 STOT-repeated exposure**
Not classified.
- 11.1.7 Aspiration hazard**
Not classified.
- 11.1.8 Other information on acute toxicity**
N/A

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
Not expected to cause any harm to the environment.
- 12.1.2 Toxicity to other organisms**
No information available.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
No information available.
- 12.2.2 Chemical degradation**
No information available.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
No information available.
- 12.5 Results of PBT and vPvB assessment**
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- 12.6 Other adverse effects**
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13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Disposal as laboratory chemical waste according to local and national regulations.

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14. TRANSPORT INFORMATION

- 14.1 UN number -
- 14.2 UN proper shipping name -
- 14.3 Transport hazard class(es) -
- 14.4 Packing group -
- 14.5 Environmental hazards -
- 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**
REACH regulation
CLP regulation
- 15.2 **Chemical safety assessment**
Chemical Safety Assessment/Reports (CSA/CSR) is not available for this substance.

16. OTHER INFORMATION

- 16.3 **Key literature references and sources for data**
CLP regulation (1272/2008/EC)
ECHA C&L Inventory
- 16.4 **Classification procedure**
Information of constituents.
- 16.6 **Training advice**
Handle with good practice and according to safety instructions.
- 16.7 **Recommended restrictions**
No special restrictions.
- 16.8 **Additional information available from:**
Oy FF-Chemicals Ab, Finland, tel. +358 8 5563 193
ffc@ff-chemicals.fi

The information in this safety data sheet are according to our best knowledge correct on the day it was composed, and may not be regarded as warranty or quality specification.