

Hydrochloric acid 1 mol/l

Date 2.3.2022

Previous date: 22.1.2021

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 codeFF226 1 L, FF227 5 L, FF454 10 L, FF454 20 L
UFI GEM0-UOGG-S00S-AV9S**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****1272/2008 (CLP)**

Met. Corr. 1, H290

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

GHS05

Signal word

Warning**Hazard Statements**

H290

May be corrosive to metals.

Precautionary Statements

P234

Keep only in original container.

P390

Absorb spillage to prevent material damage.

2.3 Other hazards

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

7647-01-0

231-595-7

Hydrochloric acid... %

3.6 %

Skin Corr. 1B, H314; STOT SE 3,
H335**3.3 Other information**

The full text of hazard statements are given in chapter 16.

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

Remove patient from exposure. Take off contaminated clothing. IF substantially exposed: Call a POISON CENTER or doctor/physician.

4.1.2 Inhalation

Move into fresh air. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

4.1.3 Skin contact

Flush skin immediately with water. Do NOT induce vomiting. If skin irritation occurs: Call a POISON CENTER or doctor/physician.

4.1.4 Eye contact

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

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.

4.2 Most important symptoms and effects, both acute and delayed

Mild irritation.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES**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

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5.2 Special hazards arising from the substance or mixture

May form hazardous fumes or vapours in case of fire.

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**

Evacuate the contaminated area. Wear personal protective equipment. Ventilate the area.

6.2 Environmental precautions

Prevent flowing into sewers

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**

Prevent discharging of vapour and mist in workplace air. Avoid inhaling the product. Avoid contact with eyes, skin and clothing. Use fume hood or and personal protection equipment.

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**7647-01-0 Hydrochloric acid 5 ppm (15 min) 7.6 mg/m³ (15 min)**8.1.2 Other information on limit values**

Finnish limit values above.

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Handle with good practice and according to safety instructions. Ensure adequate ventilation.

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.

8.2.2.2 Hand protection

Protective gloves (EN 374) for acids.

8.2.2.3 Eye/face protection

Tight-sitting goggles.

8.2.2.4 Skin protection

Laboratory coat, long sleeves.

8.2.3 Environmental exposure controls

Prevent flowing into sewers

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

Liquid, colourless

9.1.2 Odour

Pungent

9.1.3 Odour threshold

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9.1.4 pH

< 0.1

9.1.5 Melting point/freezing point

No information available.

9.1.6 Initial boiling point and boiling range

No information 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 information available.

9.1.12 Vapour density

No information available.

9.1.13 Relative densityca 1 g/cm³**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

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9.1.17 Decomposition temperature

No information available.

9.1.18 Viscosity

No information 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**

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

Excess heat.

10.5 Incompatible materials

Strong oxidizing agents. Reducing agents. Bases. Metals.

10.6 Hazardous decomposition products

Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****11.1.1 Acute toxicity**

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.

12.2 Persistence and degradability**12.2.1 Biodegradation**

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**
Prevent entry into drains, sewers, soil or watercourses.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

- 14.1 UN number** UN1789
- 14.2 UN proper shipping name** HYDROCHLORIC ACID, Solution
- 14.3 Transport hazard class(es)** 8
- 14.4 Packing group** II
- 14.5 Environmental hazards** Ei
- 14.6 Special precautions for users**
Kemler 80
EMS F-A, S-B
- 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**
REACH regulation
CLP regulation
Finnish TLV values
- 15.2 Chemical safety assessment**
Chemical Safety Assessment/Reports (CSA/CSR) is not available for this substance.

16. OTHER INFORMATION

- 16.1 Additions, Deletions, Revisions**
General revision.
- 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.
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
- 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.