



Safety Data Sheet According to Regulation (EU) 830/2015

1022 Hydrochloric Acid 0,5 mol/l *(0,5N)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Name:

Hydrochloric Acid 0,5 mol/l *(0,5N)

Synonym:

Muriatic Acid

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Relevant identified uses of the substance or mixture:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Hydrochloric solution

Name: Hydrochloric Acid 0,5 mol/l *(0,5N)

Formula: HCl M.= 36,46 CAS [7647-01-0]

EC number (EINECS): 231-595-7

3.2 Mixtures

0001: Hydrochloric Acid 37%

Formula: HCl M.= 36,46 CAS [7647-01-0]

EC number (EINECS): 231-595-7

EC index number: 017-002-01-X

REACH Registration Number: 01-2119484862-27-XXXX

Content: $\geq 1\%$ $\leq 5\%$

Met. Corr. 1

Skin Corr. 1B

STOT SE 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H290 May be corrosive to metals.

H335 May cause respiratory irritation.

H314 Causes severe skin burns and eye damage.

4. First aid measures

4.1 Description of first aid measures

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Swallowing:

Drink large amounts of water. In the event of sickness, seek medical assistance.

Inhaling:

Take the person out into the fresh air.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

Eyes:

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

5. Firefighting measures**5.1 Extinguishing media:**

As appropriate to the environment.

5.2 Special hazards arising from the substance or mixture:

Incombustible. Upon contact with metals, hydrogen gas may form (there is a risk of explosion). Precipitate fumes formed with water.

5.3 Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the fumes. Avoid contact with the skin, eyes or clothing.

6.2 Environmental precautions:

Avoid pollution of the soil, water supplies and drains.

6.3 Methods and material for containment and cleaning up:

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Neutralize with diluted sodium hydroxide.

6.4 Reference to other sections

Not applicable

7. Handling and storage**7.1 Precautions for safe handling:**

Limited shelf-life.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In well ventilated premises.

Recommended storage temperature: Room temperature. Do not store in metal containers.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection**8.1 Control parameters:**

VLA-EC(HCl): 10 ppm = 15 mg/m³ VLA-ED(HCl): 7,6 mg/m³ VLA-ED(HCl): 5 ppm

8.2 Exposure controls

No special indications.

Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection.

Hand protection:

Use suitable gloves

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Wash hands and face before breaks and when the job is done.

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Odourless.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 1,007 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

No specific data.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

The product is chemically stable under standard ambient conditions (room temperature).

10.5 Incompatible materials:

Metals. (Hydrogen is formed).

10.6 Hazardous decomposition products:

Hydrogen chloride. Chlorine.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LC50 inh rat : 3124 ppm (V) HF 1h

Dangerous effects for health:

Upon contact with the skin: irritations slight
Through contact with the eyes: irritations slight

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Fish test 25 mg/l

Classification:

Toxic

Leuciscus idus (48h)(1N) 862 mg/l

Classification:

Very toxic

- Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Medium

- Observations:

Has a major acute effect on the water and land environment depending on pH.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

Does not consume oxygen biologically.

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk = ----

- Observations:

It is not bio-accumulable, although it is accumulable in water courses and soils in saline form (Cl⁻).

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Generally, its effect is acutely considerable in the dumping area. Its long-term effect is not so considerable if the dumping is not frequent.

The treatment is neutralization.

13. Disposal considerations

13.1 Waste treatment methods:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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14. Transport information

14.1 UN number

UN1789

14.2 UN proper shipping name

HYDROCHLORIC ACID

14.3 Transport hazard class(es)

8

14.4 Packing group

ADR/IMDG: III

IATA: III

14.5 Environmental hazards**14.6 Special precautions for user**

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The substance is subject to Regulation (EC) No 273/2004 of the European Parliament and of the Council, of 11 February 2004 on drug precursors, Council Regulation (EC) No 111/2005 of 22 December 2004 laying down rules for the monitoring of trade between the Community and third countries in drug precursors, Commission Regulation (EC) No 1277/2005 of 27 July 2005 laying down implementing rules for Regulation (EC) No 273/2004 of the European Parliament and of the Council on drug precursors and for Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors.

15.2 Chemical safety assessment

Not applicable

16. Other information

Other precautionary statements

Version and revision date : 5 07.10.2017

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In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.