



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

1020 Hydrochloric Acid 37%

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

1.1 Product identifier

Name:

Hydrochloric Acid 37%

Synonym:

Muriatic Acid

REACH Registration Number: 01-2119484862-27-XXXX

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.

Met. Corr. 1

Skin Corr. 1B

STOT SE 3

2.2 Label elements:

Hazard Pictograms



Signal word

Hazard statements

H290 May be corrosive to metals.

H335 May cause respiratory irritation.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P234 Keep only in original container.

P390 Absorb spillage to prevent material damage.

P406 Store in corrosive resistant/ container with a resistant inner liner.

P264 Wash...thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Aqueous solution

Aqueous solution.

Name: 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

3.2 Mixtures

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. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Take the product out with cotton wool soaked in polyethylene-glycol 400.

Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. 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. Do not allow extinguishing water into surface or underground water courses.

5.3 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

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

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:

No special indications.

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. Filter E (HCl). Filter P (HCl).

Hand protection:

Use suitable gloves neopren nitrile latex

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Use suitable work 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: Characteristic.

pH:

N/A

Melting point/freezing point: -25 °C

Initial boiling point and boiling range: 85 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 20 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 1,19 g/ml

Solubility: in () 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 standar ambient conditions (room temperature).

10.5 Incompatible materials:

Aluminium. Amines. Carbides. Hydrides. Fluorine. Alkaline metals. Metals. KMnO₄. Strong bases. Salts of oxyhalogenic acids. Concentrated sulfuric acid. Semimetallic hydrogen compounds. Semimetallic oxides. Aldehydes. Sulphides. Lithium silicide. Vinyl methyl ether.

10.6 Hazardous decomposition products:

Hydrogen chloride. Chlorine.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 oral rbt : 900 mg/kg

LC L0 inh hmn : 1300 ppm 30 min

LC50 inh hmn : 3124 ppm 1h

Dangerous effects for health:

If fumes inhaled: Irritations to the respiratory tracts. Very corrosive substance.

Upon contact with the skin: burns Through contact with the eyes: burns blindness (irreversible injury of the optic nerve) If swallowed: Burns in the digestive apparatus May cause: perforation in the oesophagus and stomach. After a period of latency: cardiovascular failure

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:

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: II

IATA: II

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

P321 Specific treatment (see on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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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.