

SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Revision Date Jul 01, 2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name HYDROCHLORIC ACID 15%

CAS-No. 7647-01-0 Product code GP1230

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Chemical for analysis and production.

1.3 Details of the supplier of the safety data sheet

Company RCI LABSCAN LIMITED.

24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand

Telephone number (662) 613-7911-4 Fax number (662) 613-7915

1.4 Emergency Telephone Number

Emergency phone (662) 613-7911-4

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Corrosive to metals (Category 1), H290 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Warning

Hazard statement(s)

H290 May be corrosive to metals.
H315 Causes skin irritation.
H310 Causes serious eve irritation

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

Precautionary statement(s)

P234 Keep only in original packaging.

P261 Avoid breathing fume/gas/mist/vapours/spray.

P264 Wash hand thoroughly after handling.
P271 Use only outdoor or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

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

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P305 + P351 + P338	IF IN EYES: Rinse cautiously	y with water for several minutes. Remove contact
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lenses, if present and easy to do. Continue rinsing.

P319 Get medical help if you feel unwell.
P332 + P317 If skin irritation occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P390 Absorb spillage to prevent material-damage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

2.3 Other hazards None

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixture

Hydrochloric acid

Synonyms Chlorohydric acid, Hydrogen chloride, Muriatic acid, Spirits of salt.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 7647-01-0 231-595-7 017-002-01-X HCI 36.46 g/mol 15

Hazardous ingredients according to Regulation (EC) No 1272/2008

Co	mponent	Concentration	Classification		
Hydrochloric acid					
CAS-No	7647-01-0	15%	Corrosive to metals (Category 1), H290		
EC-No	231-595-7		Skin corrosion (Category 1B), H314		
EC-Index-No	017-002-01-X		Serious eye damage (Category 1), H318		
			Specific target organ toxicity - single exposure (Category		
			3), Respiratory system, H335		

For the full text of the H-Statements mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Show this safety	data sheet to the doctor in attendance.
General advice	OHOW HIIS SAICLY	data sheet to the doctor in attendance.

Inhalation Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of

shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose.

Use suitable instruments/apparatus.

Skin contact Remove contaminated clothing and wash affected skin with soap and water. Dab with

polyethylene glycol 400. If signs of poisoning appear, treat as for inhalation. Obtain

medical attention. Wash contaminated clothing before reuse.

Eye contact If the substance has got into the eyes, immediately wash out with plenty of water at least

15 minutes. Obtain medical attention.

Ingestion Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath,

give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an

unconscious person.

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4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in section 2.2 and section 11

4.3 Indication of any immediate medical attention and special treatment needed

After swallowing: make victim drink water (two glasses at the most), avoid vomiting (risk of perforation). Immediately call in physician. Do not attempt to neutralize.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In adaption to materials stored in the immediate neighborhood.

5.2 Special hazards arising from the substance or mixture

Non-combustible. Hydrogen may form upon contact with metals (danger of explosion). Ambient fire may liberate hazardous vapors. The following may develop in event of fire: Hydrochloric acid.

5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

5.4 Further information

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

6.3 Methods and materials for containment and cleaning up

Spillage: soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits. Transfer to covered drums. Dispose of promptly.

6.4 Reference to other sections

For disposal see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of good ventilation in the working area. The floor must be acid resistant. Suitable materials: Glass, Stoneware, porcelain, Polyvinyl chloride, Polyethylene (PE), Polypropylene, Polytetrafluoroethylene PTFE (Teflon). Do not leave container open. Avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water and incompatible materials. Requirements for containers, no metal containers.

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7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Appropriate engineering controls

The product should only be used in ventilation hoods and fans.

Individual protection measures (Personal protective equipment, PPE)

Eye/face protection

Goggles giving complete protection to eyes.

Skin protection

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes.

Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from natural latex material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

Respiratory protection

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In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter E-(P2) (EN 141 or EN 14387).

Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: From Liquid : Color Colorless Odour Pungent Odour Threshold Not Available <1 at 20°C рΗ Melting point/range -30°C 106°C Boiling point/range Not Available Flash point Not Available Evaporation rate Flammability (solid, gas) Not Available Explosion limits: lower Not Available upper Not Available Vapor Pressure Not Available Relative Vapor Density Not Available Density 1.082 g/ml at 20°C Water solubility Soluble at 20°C Partition coefficient (n-octanol/water) Not Available Auto-Ignition temperature Not Available **Decomposition Temperature** Not Available Viscosity Not Available

Explosive properties Oxidizing properties The substance or mixture is not classified as oxidizing.

Not Explosive

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SECTION 10: Stability and reactivity

10.1 Reactivity

Corrosive in contact with metals. Reacts with alkalis, strong oxidizing agents and strong bases.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Risk of explosion in contact with alkali metals, conc. sulfuric acid, potassium permanganate.

The substance can react dangerously with aluminium, alkali hydroxide, amines, ammonia, fluorine, bases, oxidizing agents, metal carbides, calcium hydride, formaldehyde, copper sulfide, lithium silicide, metals, sodium hydride, sodium hypochlorite and its solutions, silanes, silicon dioxide, vinyl methyl ether and zinc.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Aluminium, amines, carbides, hydrides, fluorine, potassium permanganate, strong alkali, salts of oxyhalogenic acids, conc sulfuric acid, semimetallic oxide, semimetallic hydrogen compounds, aldehydes, sulfides, lithium silicide, vinylmethyl ether.

Incompatible with various metals and metal alloys.

10.6 Hazardous decomposition products

Hydrogen gas (Hazardous decomposition products from under contact with metals).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture

Acute toxicity

Not Available

Acute oral toxicity

Irritations of mucous membranes

Acute inhalation toxicity

Respiratory irritation

Skin corrosion/irritation

Slight irritations

Serious eye damage/eye irritation

Slight irritations

Respiratory or skin sensitization

Not Available

Germ cell mutagenicity

Not Available

Carcinogenicity

Not Available

Reproductive toxicity

Not Available

Teratogenicity

Not Available

Specific target organ toxicity (STOT) - single exposure

Not Available

Specific target organ toxicity (STOT) - repeated exposure

Not Available

Aspiration hazard

Not Available

Further information

The product should be handled with the care usual when dealing with chemicals.

SECTION 12: Ecological information

Mixture

12.1 Toxicity

Toxicity to fish LC₅₀ Leuciscus idus: 862 mg/l (1N solution)

12.2 Persistence and degradability

Not Available

12.3 Bioaccumulative potential

Not Available

12.4 Mobility in soil

Not Available

12.5 Other adverse effects

Do not allow to enter waters, waste water or soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

SECTION 14: Transport information

Land Transport (ADR/RID)

UN Number 1789

UN proper shipping name HYDROCHLORIC ACID

Transport hazard class(es) 8

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Packing group III
Environmental hazards No
Special precautions for user Yes

Sea transport (IMDG)

UN Number 1789

UN proper shipping name HYDROCHLORIC ACID

Transport hazard class(es) 8
Packing group III
Marine pollutant No
Special precautions for user Yes
EmS F-A S-B

Air transport (IATA)

UN Number 1789

UN proper shipping name HYDROCHLORIC ACID

Transport hazard class(es) 8
Packing group III
Environmental hazards No
Special precautions for user No

River transport (AND/ADNR)

(Not examined)

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Not Available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H290 May be corrosive to metals.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Recommended restrictions

Take notice of labels and safety data sheets for the working.

Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

Further information

Contact to RCI Labscan Limited.

Revision Date

01/07/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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