

Hydrochloric Acid

SAFETY DATA SHEET

Product Name: HYDROCHLORIC ACID 10 - 37%
Classified as hazardous

SECTION 1: MATERIAL AND SUPPLIER INFORMATION

GHS Product Identifier: RALLY HYDROCHLORIC ACID 10 - 37%

Product Code: HPHCL0025

Company Name: Sunrise Hardware & Garden Products - ABN 51 22 542 3880
Address: Unit 4/ 32-42 Mirage Road Direk S.A. 5013

Phone number: 08 8347 4999
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Email Address: sunrise@sunrisehardware.com.au
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Other Names:	<u>Name</u>	<u>Product Code</u>
	HYDROCHLORIC ACID	
	HYDROCHLORIC ACID	
	SPIRITS OF SALTS	
	Muriatic Acid	
	Spirit of salt	

Recommended use of the chemical and restrictions on use Adjustment of pH, boiler scale removal, laboratory reagent, and used for pickling and cleaning metals. General chemical for manufacturing processes.

Other Information Sunrise Hardware & Garden Products has taken care in compiling this information. No liability is accepted whether direct or indirect from its application since the conditions of final use are outside Sunrise Hardware & Garden Products' control.

SECTION 2: HAZARDS IDENTIFICATION

GHS classification of the substance/mixture Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

SIGNAL WORD (s) DANGER

Hazard Statement (s) H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

Pictogram (s)

Corrosion, Exclamation mark



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Precautionary statement - Prevention

P234 Keep only in original container.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well - ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Precautionary statement - Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. DO NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/ physician.
P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Precautionary statement - Storage

P403 + P233 Store in a well - ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in corrosive resistant/ container with a resistant inner liner.

Precautionary statement -disposal

Dispose of contents and/or container in accordance with State, Territorial and/or Commonwealth regulations where applicable.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Hydrochloric Acid	7647-01-0	10-37%
	Water To Make Total Of	7732-18-5	67%
	100%		

Other Information

It may contain low levels of hydrofluoric acid.

SECTION 4: FIRST-AID MEASURES

Inhalation

Remove victim from exposure - avoid becoming a casualty.
Allow patient to assume most comfortable position and keep warm.
Keep at rest until fully recovered.
If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage.
Seek medical attention.

Ingestion Poison Information Centres in each State capital city can provide additional assistance for scheduled poisons.
Rinse mouth thoroughly with water immediately.
Give water or milk to drink. **DO NOT** induce vomiting.
Seek immediate medical assistance.
Vomiting may cause further damage to the throat.
STOT is Specific Target Organ Toxicity.

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Skin contact Wash affected areas with copious quantities of water immediately.
If irritation occurs seek medical advice.
If swelling, redness, blistering or irritation occurs seek medical advice.
Remove contaminated clothing and wash before re-use.
Treat skin and clothing with 1% sodium bicarbonate solution to neutralize acid residues.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes.
Eyelids to be held open.
Seek immediately medical assistance.

Advice to doctor Treat symptomatically as for strong acids.

SECTION 5: FIRE-FIGHTING MEASURES

Specific hazards arising from the chemical Evacuate immediate area.
Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.
Decomposes on heating emitting toxic fumes.
Hazardous decomposition products:
Hydrogen Chloride
Heating can cause expansion or decomposition leading to violent rupture of containers.
Use water to keep the substance cool.
Extinguish fire with the following:
Use water spray.

Hazchem Code 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills & Disposal Clear area of all unprotected personnel.
For large spills notify Emergency Services.
Contain - prevent contamination of drains and waterways.
Use absorbent (soil or sand, sawdust, inert material, vermiculite).
Collect and seal in properly labelled drums for disposal.
Neutralise remaining product with lime or soda ash, adjusting pH to 6-10.
Flush to sewer as a greatly diluted solution.
Wear full protective clothing (see Personal Protection/Ventilation Section).
Self-contained breathing apparatus may be needed for prolonged periods of exposure.
Refer to appropriate State Waste Disposal Authority
Observe local regulations.
There may be instances with the technical grade products where there may be contamination due to hydrofluoric acid.

Care should be taken especially where the material may be stored or used in glass vessels.

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SECTION 7: HANDLING AND STORAGE

Conditions for safe storage, including any incompatibilities Store in cool place and out of direct sunlight.
Store in well-ventilated area.
Store away from oxidizing agents.
Store away from foodstuffs.
Keep containers securely sealed and protected against physical damage.
Not to be loaded with Class 1, 4.3, 5.1, 5.2, 6*,7, Foodstuff and foodstuff empties.
(* where the Class 6 substance is a cyanide and the Class substance is an acid).
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Care should be taken especially where the material may be stored or used in glass vessels.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Hydrochloric Acid			7.5	5	Peak limitation

Other Exposure Information TLV/TWA: 7 mg/m3, 5 ppm; Worksafe Aust. - peak limitation - Is the concentration that should not be exceeded even instantaneously.

Appropriate engineering controls Odour Threshold: 1 - 5ppm IDLH Value: 100 ppm
Maintain concentration below recommended exposure limit.
Use with adequate ventilation.
Local exhaust ventilation usually required.
Keep containers in a well-ventilated area.

Personal Protective Equipment The following personal protective equipment must be worn.
PVC, neoprene or nitrile rubber gloves.
Safety glasses, goggles or face shield as appropriate.
Overalls or similar protective apparel.
Wearing of the following personal protective equipment may be advisable.
Splash apron.
Rubber boots.
In confined spaces the following are recommended.
Combination particulate/gas respirator, Class B., (Inorganic vapour).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colourless to yellow, clear liquid, characteristic fumes. Tendency to fume at higher concentrations.

Melting Point Melting Point -46.2 degrees C

Boiling Point	Boiling Point 108.6 degrees C
Specific Gravity	1.16
PH	<1
Vapour Pressure	17.8 mm Hg at 20 degrees C
Volatile Component	Hydrogen Chloride Gas
Flash Point	Non-Flammable
Flammability	Non-Flammable. Contact with strong alkalis may generate heat.
Flammable Limits - Lower	No Data
Molecular Weight	36.46
Product Name:	HYDROCHLORIC ACID 10 - 37% Classified as hazardous

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Will react with water or steam to produce toxic and corrosive fumes. Keep away from strong oxidising agents and strong bases. Avoid contact with metals. Reacts with zinc, brass, galvanised iron, aluminium, copper and copper alloys. Keep away from cyanides and sulphates.
Hazardous Decomposition Products	Hydrogen Chloride.
Hazardous Polymerization	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicology Information Ingestion	Oral LD50(fabbit): 900 mg/kg Inhalation LCLo(human): 1300 ppm/30 minutes Inhalation LCLo(human): 3000 ppm/5 minutes Can kill if swallowed. May cause severe burns to the mouth, throat and stomach. Will cause severe damage to the mucous membranes.
Inhalation	The vapour is an irritant to the mucous membranes and respiratory tract. Possible harmful corrosive effects.
Skin	An asphyxiant; exposure to high concentrations will cause suffocation. Contact with skin will result in severe irritation. Harmful in contact with the skin.
Eye	Corrosive to skin - may cause skin burns. Highly corrosive to eyes. Contamination of eyes can result in permanent injury.
Chronic Effects	High concentrations of vapours will cause irritation. Prolonged exposure may cause bronchitis, pneumonia and pulmonary oedema.

SECTION 12: ECOLOGICAL INFORMATION

Other Precautions	Will react with water or steam to produce toxic and corrosive fumes. Keep away from strong oxidising agents and strong bases. Avoid contact with metals. Reacts with zinc, brass, galvanised iron, aluminium, copper and copper alloys. Keep away from cyanides and sulphides.
Environmental Protection	Avoid contaminating waterways. The product is strongly acidic and hence may react with metals to produce

hydrogen, a flammable gas.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to federal, state and EPA considerations.

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SECTION 14: TRANSPORT INFORMATION

U.N. Number 1789
UN proper shipping name HYDROCHLORIC ACID
Transport hazard class(es) 8
Hazchem Code 2R
Packing Group II
EPG Number 8A1
IERG Number 40
UN Number (Road Transport) 1789

SECTION 15: REGULATORY INFORMATION

Regulatory Information Australia:
Classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC).
Poison Schedule: Schedule 6
Poisons Schedule S6

SECTION 16: OTHER INFORMATION

Date of preparation:	14/10/21
Revision number:	2

Contact Person/Point Sunrise Marketing Pty Ltd
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Phone: 08 8347 4999 **Fax:** 08 8347 4740
Or
Poisons Information Centre
Tel: 13 11 26
Disclaimer:
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Empirical Formula & Structural Formula HC1



This SDS summarises product safety information at the date of issue, to the best of our knowledge, as a general guide. Sunrise Marketing Pty Ltd cannot anticipate or control the conditions under which the product is used, so prior to usage each user must assess and control the risks associated with their use of the product. Users should also consult the relevant legislation governing the use and storage of this product. We make no warranties, express or implied, and assume no liability in connection with any use of information contained within this document.