

MATERIAL SAFETY DATA SHEET

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PRODUCT : HYDROCHLORIC ACID

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA.

Product Code: 0051581
Other names: HYDROCHLORIC ACID SOLUTION

UN Number:	1789	Shipping Name:	HYDROCHLORIC ACID
Hazchem Code:	2R	DG Class :	8
Subsidiary Risk:	NIL	Poison Schedule:	6
Packaging Group:	II		

PHYSICAL DESCRIPTION/PROPERTIES

Use:	Used to remove carbonate scale build up.		
Appearance :	Clear yellow, mobile, fuming liquid.	Odour :	pungent
Specific Gravity:	1.26	Vapour Pressure:	Not determined (equivalent to water)
Solubility in water:	Complete	Flash Point :	Non-flammable
Boiling/Melting Points:	Not applicable	Flammability Limits :	Non- flammable
Other Properties:	Nil	pH :	approx. 1

INGREDIENTS

Chemical	CAS Number	Proportion (w/v)
Hydrogen Chloride	7647-01-0	33%
Ingredients determined to be non-hazardous	not required	>60%

FIRST AID:

Swallowed: Immediately remove from mouth. Do NOT induce vomiting. Give a glass of water. Neutralise with milk and milk of magnesia. Seek immediate medical attention.

Eye: Immediately irrigate with copious quantities of water for at least 15 minutes, eyelids to be held open. Urgently seek medical attention. Transport to hospital or medical centre.

Skin Contact: Remove or cut away contaminated clothing and wash skin thoroughly with water. Seek medical attention.

Inhaled: Remove victim from exposure. Avoid becoming a casualty. Seek medical attention if effects persist. 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. Seek medical advice.

First Aid Facilities: No special requirements.

Advice to Doctor: Treat symptomatically.

WORKSAFE AUSTRALIA CLASSIFICATION

CATEGORY :	C+ – VERY CORROSIVE
RISK PHRASES :	R35 - Causes severe burns. R37 - Irritating to respiratory system. R41 - Risk of serious damage to eyes.
SAFETY PHRASES :	S26 - In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. S7/9 - Keep container tightly closed and in a well ventilated place. S44 - If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

PRODUCT : HYDROCHLORIC ACID

HEALTH EFFECTS

ACUTE: Symptoms that may arise if the product is mishandled are:

- Swallowed:** Highly corrosive and toxic if swallowed. Swallowing can result in corrosion of the gastrointestinal tract, vomiting, diarrhoea, and abdominal pain.
- Eye:** Corrosive to eyes. May cause severe and permanent damage.
- Skin Contact:** Corrosive to skin. Can cause skin burns.
- Inhaled:** Vapours are pungent and corrosive. Can cause tissue damage to respiratory tract. May cause nausea, increased respiration and lung disease. Exposure to high vapour concentrations or the acid as a mist may lead to lung damage including pulmonary oedema. Effects may be delayed.

- CHRONIC:** Repeated exposure to low levels may produce erosion of the teeth and ulceration of the nose and gums.
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PRECAUTIONS FOR USE:

- Exposure Standards:** TLV 5 ppm (7.5mg/m³) for hydrogen chloride – assigned for this specific material by the National Health and Medical Research Council or by the National Occupational Health and Safety Commission (Worksafe Australia). Odour detectable at < 5ppm.
- Engineering Controls:** Local exhaust ventilation is required indoors.
- Personal Protection:** Protective equipment must be worn. PVC gloves, waterproof apron, safety boots and full face shield. Avoid breathing dust or vapours.
- Flammability:** Not flammable, but contact with most metals will produce explosive hydrogen gas.
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SAFE HANDLING INFORMATION :

- Storage and Transport:** Classed as a Class 8 corrosive liquid, by the Australian Code for the Transport of Dangerous Goods by Rail and Road. Store as per the regulatory requirements for a schedule 6 poison. Store in original container in a cool, dry place area away from other chemicals. Vent drums carefully when opening. Do not store in unventilated areas.
- Spills and Disposal:** Ensure adequate ventilation. Dyke and neutralise with soda ash or slaked lime. Absorb with dry earth or sand for disposal. Do not incinerate!
- Fire/Explosion:** In a fire, may liberate hydrogen chloride gas. Fire fighters should wear self contained breathing apparatus.
- Other information:**
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CONTACT POINT: Industrial Chemist - phone: 07 3204 8300

This material safety data sheet is compiled from the best information currently available to the company. The company accepts no responsibility for the accuracy of the information contained in this data sheet, or any results obtained by customers or end-users. Good industrial hygiene should always be used when handling chemicals.

END OF MSDS