

Active Chemicals Pty Ltd

ABN 16 117 075 180
Professional Cleaning chemicals

MATERIAL SAFETY DATA SHEET

Product: Hydrochloric Acid solution

Company Details

Supplier: Active Chemicals Pty Ltd **Telephone No.:** 02 9826 0201
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Prestons NSW 2170 **Email:** williamsay@optusnet.com.au

Emergency Telephone No.:

Business Hours: 02 9826 0201
After Hours: 000 Fire brigade or Police

IDENTIFICATION

U.N. Number: 1789 **Class:** 8
Hazchem: 2R **Poisons Schedule:** 6
EPG: 8A1 **Packaging Group:** II

Classified as hazardous according to criteria of NOHSC

Ingredients

Chemical Entity	CAS No.	Proportion
Hydrochloric acid	7647-01-0	30 -35%
Water	7732-18-5	65 – 70%

Other Names

Muriatic acid
Hydrochloric acid
Spirit of Salts

Uses

Acidising of petroleum wells, boiler scale removal, chemical intermediate, ore reduction, food processing, pickling, metal cleaning, laboratory reagent, pH adjuster.

Physical Description / Properties

Appearance: Clear to pale solution.
Flash point: N/A **Specific Gravity:** 1.15 – 1.17
Boiling point (°C): 110 C **ph (5% solution)** < 1
Melting Point (°C): N/A **Solubility in Water (g/L):** soluble
Vapour pressure: 4.6 mm Kg (1 atmosphere)

Other Properties

Doc Title:	MSDS Hydrochloric acid	Doc ID:	QA1
Version:	2.3 CURRENT	Version Date:	15/4/08
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Odour: characteristic pungent odour
Solubility: Soluble in water

HEALTH HAZARD INFORMATION

Health Effects

Symptoms that may arise if the product is mishandled are:

Acute

Swallowed Irritant causing severe chemical burns.

Eye Irritant causing severe chemical burns.

Skin Irritant causing severe chemical burns.

Inhaled Respiratory irritant causing severe chemical burns.

Chronic Effects

Repeated or prolonged skin contact may lead to irritant contact dermatitis.

As with any chemical - ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice.

First Aid

Swallowed Rinse mouth thoroughly with water immediately. Give 1 – 3 cups of milk or water to drink. Seek medical attention immediately. Do NOT induce vomiting.

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

Skin Immediately wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before re-use. Seek medical advice.

Inhalation Remove victim from exposure - avoid becoming a casualty. Seek medical advice.

Poison Information Centres in each State capital city can provide additional assistance.

Advice to Doctor

Treat symptomatically.

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PRECAUTIONS FOR USE

Exposure Standards (for atmospheric contaminants in the occupational environment)

No value assigned for this product by the NOHSC (Workcover). However, the exposure standard for the acid constituent is:

	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Hydrochloric acid	5	7.5		

Engineering Controls

Maintain concentration below recommended exposure limit. Use in a well-ventilated area. Avoid generating and inhaling mists and aerosols. Keep containers closed when not in use. If risk of overexposure exists, wear SAA approved respirator to comply with Australian Standards, ensuring correct fit to obtain adequate protection.

Personal Protection

- Eyes:** The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.
- Skin:** Rubber or PVC gloves, overalls or PVC suit, safety or rubber boots
- Respiratory:** If mist is generated the use of a air fed respirator is recommended.

Avoid contact with eyes and skin. Avoid prolonged or repeated exposure. Always wash hands before smoking, eating, drinking or using the toilet.

Flammability

Not combustible material.

SAFE HANDLING INFORMATION

Storage and Transport

Classified as a Dangerous Good for the purposes of transport.

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Use only plastic (PE, PP, PVC) or fibreglass containers/vessels – corrosive to mild and stainless steels. Other tanks should be lined with chloride resistant materials. Pumps should also be lined with chloride resistant materials.

Spills

Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination including breathing apparatus.

Do not allow spill material to enter the environment. Neutralise spill then contain material using inert absorbent material eg vermiculite. Place into suitable labelled containers and hold for waste disposal. Wash area down with excess water once removed.

Disposal

Refer to State and Land Management Authority and relevant Environmental Protection Authority.

Fire / Explosion Hazards

Conditions to avoid:

High temperature: Toxic fumes of hydrogen chloride may be released if involved in a fire. Fire fighters are to wear self contained breathing apparatus and full protective clothing due to chlorine gas risk.

Materials to avoid:

Strong alkalis.

Hazardous Decomposition Products:

May produce hydrogen chloride and /or corrosive gases

Extinguishing Media:

Fire fighters should wear full protective clothing including self-contained breathing apparatus. In case of fire use water, foam, carbon dioxide, dry powder.

OTHER INFORMATION

Toxicity

Toxicology:

No data

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Risk Statement:

R35 Causes severe burns
R36/37/38 Irritating to eyes, respiratory system and skin.
R41 Risk of serious damage to eyes.

Safety Statement:

S7/9 Keep container tightly closed and in a well ventilated place.
S26 In case of contact with eyes, rinse immediately with plenty of water and Seek medical advice.
S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

Hazard Category: X1

Harmful, Irritant

Company Disclaimer

All information contained in this data sheet is as accurate and up-to-date as possible. Since Active Chemicals Pty Ltd cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application.

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