



PRICE CHEMICALS PTY LIMITED

ABN 92 002 585 293

10 Pile Road
Somersby NSW 2250
Phone: (02) 4340 0088
Fax: (02) 4340 0322
E-mail: enquiries@pricechemicals.com.au

MATERIAL SAFETY DATA SHEET

Hazardous according to criteria of Worksafe Australia

Date of Issue : 1st January 2005

1. IDENTIFICATION

General

Product Name : HYDROCHLORIC ACID SOLUTION

Other Names : HYDROCHLORIC ACID ; MURIATIC ACID ; SPIRIT OF SALTS

UN No. : 1789

Dangerous Goods Class : 8

Subsidiary Risk : None Allocated

Hazchem Code : 2R

Pack Group : II

EPG : 8A1

Poisons Schedule : 6

Uses :

Acidising (activation) of petroleum wells, boiler scale removal, chemical intermediate, ore reduction, food processing (corn syrup, sodium glutamate), pickling and metal cleaning, e.g., of membrane in desalination plants, alcohol denaturant, laboratory reagent.

1.1 Physical Description / Properties

Appearance : Clear to pale yellow liquid with pungent odour.

Formula : HCl

Boiling Point : 110 deg C

Melting Point : N/A deg C

Vapour Pressure : 4.6 mm Hg (1 atmosphere)

Specific Gravity : 1.17 (water = 1)

Flash Point : N/A

pH : ()

Solubility in water : N/A g/l (25 deg C)

Flammability Limits (as percentage volume in air)

Lower Explosion Limit : N/A

Upper Explosion Limit : N/A

1.2 Other Properties

Not available

1.3 Ingredients

Chemical Entity	CAS No.	Proportions
HYDROCHLORIC ACID	[7647-01-0]	30 - 35
WATER	[7732-18-5]	65 - 70
HYDROFLUORIC ACID	[7664-39-3]	< 1

2. HEALTH HAZARD INFORMATION

2.1 Health Effects - 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.

2.2 Health Effects - Chronic

No data available

2.3 First Aid**Swallowed**

Give 1 - 3 cups of milk or water to drink. Seek medical attention immediately. DO NOT induce vomiting.

Eye

Wash eyes with copious amounts of water for at least 15 minutes, holding eyelids open. Seek medical attention.

Skin

Wash affected areas with copious amounts of running water for at least 15 minutes. Seek medical attention.

Inhaled

Remove victim to fresh air. Seek medical attention.

First Aid Facilities

Ensure an eye bath and safety shower are available and ready for use.

2.5 Advice to Doctor

Inhalation of high concentration of vapour may cause pulmonary oedema. Treat symptomatically based on judgement of doctor and individual reactions of patient.

2.6 Toxicity Data

Oral LD50 = not available

Dermal LD50 = not available

Inhalation LC50 = not available

3. PRECAUTIONS FOR USE

3.1 Exposure Standards

TLV (TWA) = 5 ppm

3.2 Engineering Controls

Use only in a well ventilated area. Ensure adequate ventilation to maintain exposure levels below standards.

3.3 Personal Protection

Respiratory - for high levels, air fed masks should be used. Eyes - chemical goggles or full face shield with forehead protection. Skin - PVC apron, gloves, overalls. Wash thoroughly after handling, before work breaks and before going home.

3.4 Flammability

Non flammable

SAFE HANDLING INFORMATION

4.1 Storage / Transport

Store in accordance with all Commonwealth, State or Territory regulations relevant to Class 8 substances. Transport in accordance with the Australian Dangerous Goods Code. Keep containers tightly sealed.

4.2 Packaging / Labelling

UN No. 1789

Class 8

Sun Risk None Allocated

Hazchem Code 2R

Pack Group II

EPG No. 8A1

Shipping Name HYDROCHLORIC ACID SOLUTION

Hazard VERY CORROSIVE

Risk Phrases

R35 Causes severe burns.

R36/37/38 Irritating to eyes, respiratory system and skin.

R41 Risk of serious damage to eyes.

Safety Phrases

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 contact a doctor or Poisons Information Centre.

S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

4.3 Spills and Disposal

Spills

Avoid contact with skin, eyes or breathing vapour.

Disposal

Wash away with large quantities of water after neutralisation. Dispose of in accordance with all Local, State and Federal regulations.

4.4 FIRE AND EXPLOSION HAZARD

Fire / Explosion

Liberates toxic fumes of hydrogen chloride in a fire. This material is incompatible with steel, other common metals and nylon alkalis may have violent reactions.

Extinguishing Media

Keep storage vessels cool with water spray. Use media appropriate to surrounding fire conditions. Fire-fighters should wear full protective clothing including self-contained breathing apparatus.

5 OTHER INFORMATION

Other Information

No data available

5.1 Contact Points

Organisation	Location	Telephone	Ask For
Price Chemicals Pty Ltd	Somersby NSW	02-4340 0088	Technical Officer
Poisons Information Centre	Westmead	131129	
		1800-251525	