

Factory 1, No. 5,
Bungaleen Court,
Dandenong South,
Victoria, 3175



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Material Safety Data Sheet

HYDROCHLORIC ACID 33%

Infosafe No. AJ1VA **Issue Date** September 2009 **Status** ISSUED by APSSC

Classified as hazardous according to criteria of NOHSC

Emergency

Tel. 1800 022 037 (24H)
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IDENTIFICATION

Product Code TECH 00001369
Product Name HYDROCHLORIC ACID 32%
Proper Shipping Name HYDROCHLORIC ACID
Other Names Not Available
UN Number 1789
DG Class 8
Packing Group II
Hazchem Code 2R
Poisons Schedule S6
Product Use Production of chlorides, boiler scale removal, laboratory reagent, general purpose food additive and used for pickling and cleaning metals.

Physical Data

Appearance Colourless to yellow, clear liquid, characteristic fumes. Tendency to fume at higher concentrations.
Melting Point -46.2°C
Boiling Point 108.6°C
Vapour Pressure 17.8 mmHg at 20°C
Specific Gravity 1.16
Flash Point Not applicable
Flamm. Limit LEL Not applicable
Flamm. Limit UEL Not applicable
Solubility in Water Soluble

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Other Properties

Volatile

Component Hydrogen Chloride Gas
pH Value < 1
Form Liquid
Stability Stable under normal conditions.

Haz.

Polymerization Will not occur.

Materials to Avoid 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.

Formula HCl

Molecular

Weight 36.46

Ingredients

Ingredients	Name	CAS	Proportion
	Hydrochloric acid	7647-01-0	25-36 %
	Water to make total of 100%		

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed May be harmful if swallowed. Will cause severe irritation and chemical burns to the mouth, oesophagus and stomach.

Acute - Eye Corrosive to eyes. Contamination of eyes can result in permanent injury.

Acute - Skin Corrosive to skin - may cause skin burns. Contact with skin will result in severe irritation.

Acute - Inhaled High concentrations of vapours will cause irritation. The vapour is an irritant to the mucous membranes and respiratory tract. Possible harmful corrosive effects.

Chronic Prolonged exposure may cause bronchitis, pneumonia and pulmonary oedema.

First Aid

Swallowed Immediately wash out mouth with water and then give plenty of water to drink. SEEK IMMEDIATE MEDICAL ATTENTION.

Eye If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. SEEK IMMEDIATE MEDICAL ATTENTION.

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Skin Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. SEEK MEDICAL ATTENTION.

Inhaled Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have a qualified person give oxygen through a face mask if breathing is difficult. If victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation. SEEK MEDICAL ATTENTION.

First Aid Facilities Safety showers, eye wash and normal washroom facilities.

Advice to Doctor

Advice to Doctor Treat symptomatically as for strong acids.

Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	Hydrochloric acid			7.5	5	Peak limitation

Eng. Controls Maintain concentration below recommended exposure limit. Use with adequate ventilation. Local exhaust ventilation usually required. Keep containers in a well ventilated area.

Personal Protection

Respirator Type (AS 1716) Not required under normal conditions of use, however where ventilation is inadequate and vapour or spray mist is generated the use of an appropriated respirator complying with AS/NZS 1715 and AS/NZS 1716 is recommended.

Eye Protection The use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

Glove Type The use of PVC or Natural Rubber gloves complying with AS 2161 is recommended.

Clothing The use of plastic apron, sleeves, overalls, and rubber boots are recommended.

Flammability

Fire Hazards Non flammable. Contact with strong alkalis may generate heat.

Other Precautions

SAFE HANDLING INFORMATION

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Storage and Transport

Storage	Store in cool place and out of direct sunlight. Store in well ventilated area.
Precautions	Store away from oxidizing agents. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. 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.
Transport	This material is a Class 8 Corrosive Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 8 - Corrosive Substances are incompatible in a placard load with any of the following: - Class 1, Explosives - Class 4.3, Dangerous When Wet Substances - Class 5.1, Oxidising Agents & Class 5.2 - Organic Peroxides - Class 6, Toxic Substances (where the Toxic substances are cyanides and the corrosives are acids), - Class 7, Radioactive Substances and are incompatible with food and food packaging in any quantity.
Handling	Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is, always wash hands before eating, drinking, smoking or using the toilet.
Proper Shipping	
Name	HYDROCHLORIC ACID
EPG Number	8A1
IERG	
Number	40
Packaging Method	5.9.8RT8

Spills and Disposal

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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Fire/Explosion Hazard

Fire/Explos. Hazard Heating can cause expansion or decomposition leading to violent rupture of containers. The product is strongly acidic and hence may react with metals to produce hydrogen, a flammable gas.

Hazardous Decomposition or Byproducts

Hydrogen Chloride.

Fire Fighting Precautions Wear Self-Contained Breathing Apparatus (S.C.B.A) and full protective clothing to minimise skin exposure.

Extinguishing

Media Water fog, foam or dry chemical powder.

Hazchem

Code 2R

OTHER INFORMATION

Toxicology No toxicity data is available for this material.

Environment Avoid contaminating waterways.

Protection

Risk R34 Causes burns.

Statement R37 Irritating to respiratory system.

Safety S23 Do not breathe gas/fumes/vapour/spray

Statement S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27 Take off immediately all contaminated clothing.

S38 If insufficient ventilation, wear suitable respiratory equipment.

S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

S24/25 Avoid contact with skin and eyes.

S37/39 Wear suitable gloves and eye/face protection.

Hazard

Category Corrosive

Empirical

Formula & Structural

Formula HCl

Ecological

Information No ecological information is available for this material.

CONTACT POINT

Contact Australia: Business Hours: Mr Paul Verren
Telephone: (02) 9839 4024
After Hours: 1800 022 037

New Zealand: Business Hours: Mr Lloyd Williams
Telephone: (09) 276 4019
Emergency Tel: 0800 154 666

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and

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consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

End of MSDS
