

Material Safety Data Sheet

HYDROCHLORIC ACID 1.000M

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1.10.9

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HYDROCHLORIC ACID 1.000M
Product Code 643
Company Name Ajax Finechem (ABN 64 121 927 786)
Address 17/21 Bay Road Taren Point
NSW 2229
Emergency Tel. 1800 638 556 (24 hr) Aust / (NZ): 0800 154 666
Telephone/Fax Number Tel: 1300 884 078

Other Names	Name	Product Code
	HYDROCHLORIC ACID 0.100M	174
	HYDROCHLORIC ACID 1M	1368
	HYDROCHLORIC ACID 0.1M	10713

Other Information NEW ZEALAND: Ajax Finechem (NZ) Ltd
150B Harris Road, East Tamaki, Auckland
Phone (09) 273 4343
Fax (09) 273 4341
Emergency Advice (NZ): Phone 0800 154 666

2. HAZARDS IDENTIFICATION

Hazard Classification Australia:
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
New Zealand:
Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Not classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

Safety Phrase(s) S24/25 Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Hydrochloric acid	7647-01-0	0.5-<10 %
	Water	7732-18-5	Balance

4. FIRST AID MEASURES

Inhalation	Remove affected person from exposure. Allow to assume most comfortable position and keep warm. Keep at rest until fully recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Seek medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If irritation develops seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed off completely. Seek medical attention.
First Aid Facilities	Eye wash station and normal washroom facilities.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical powder, carbon dioxide, water fog or water spray.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and corrosive hydrogen chloride fumes.
Specific Hazards	The product is not combustible; however, it may react with finely divided metals to release flammable hydrogen gas.
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Increase ventilation. Evacuate all unprotected personnel. Wear protective clothing and equipment to prevent exposure. If possible contain the spill. Place inert absorbent such as vermiculite or sand onto material. Prevent run off into drains and waterways. Use clean non-sparking tools to collect the material and place into suitable, labelled containers for subsequent disposal. If spillage enters the waterways inform the EPA and the local water authorities. Dispose of waste according to relevant local, state and federal government regulations.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in well ventilated areas. Avoid breathing vapour or spray mist. Keep containers closed when not in use. Do not empty into drains. Ensure that 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 facilities.
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Conditions for Safe Storage Store in a cool, dry, well ventilated area away from oxidising agents. Keep containers closed when not in use, and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards Australian National Occupational Health And Safety Commission (NOHSC)
Exposure Standards:
Substance TWA STEL NOTES
ppm mg/m³ ppm mg/m³
Hydrochloric acid 5 7.5 - - Peak

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:
Substance TWA STEL NOTES
ppm mg/m³ ppm mg/m³
Hydrochloric acid 5 7.5 - - Ceiling

As published by the National Occupational Health and Safety Commission (NOHSC) and the New Zealand Occupational Safety and Health Service (OSH).
TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.
STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.
Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.
Ceiling: A concentration that should not be exceeded during any part of the working day.

Engineering Controls Under normal operations good general ventilation should be adequate. If mists or vapours are generated a local exhaust ventilation system, drawing vapours and mists away from workers' breathing zone, should be used.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a combination vapour/mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection Safety glasses with side shields or chemical goggles recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection Wear gloves of impervious material, such as laminated film or PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear, colourless aqueous solution.

Melting Point 0°C (for water)

Boiling Point 100°C (for water)

Solubility in Water Soluble

Specific Gravity	1.00-1.05
pH Value	0.2 (for 1.0M solution)
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Flash Point	Not applicable
Flammability	Non-combustible liquid.
Auto-Ignition Temperature	Not applicable
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions of storage and handling.

Incompatible Materials Reacts violently with oxidising agents. Avoid nitrates, peroxides, conc. nitric acid, metals, metal oxides, hydroxides, amines, carbonates and other alkaline materials. Incompatible with materials such as cyanides, sulfides, sulfites, and formaldehyde.

Hazardous Decomposition Products Hydrogen chloride fumes.

Hazardous Reactions The reaction of hydrochloric acid bleach (NaClO) or potassium permanganate (KMnO₄), produces the toxic gas chlorine.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicity data are available for this specific product. The available data for the ingredients are as follows:
 For Hydrochloric acid:
 LD50 (Oral, Rabbit): 900 mg/kg
 LC50 (Inhalation, Rat): 3124 ppm/h
 LC50 (Inhalation, Mouse): 1108 ppm/h
 Skin Irritation, Standard Draize Test (Human, 4%/24h) - Reaction: Mild
 Eye Irritation, Rinsed Draize Test (Rabbit, 5mg/30s) - Reaction: Mild

Inhalation Vapours or spray mist may be irritating to the respiratory system.

Ingestion Ingestion of this product may irritate the gastric tract, causing nausea and vomiting.

Skin May be irritating to skin. The symptoms may include redness, itchiness and rashes.

Eye May be irritating to eyes. May cause stinging, redness and tearing of the eyes.

Chronic Effects Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity Not available

**Persistence /
Degradability** Not available

Mobility Not available

**Bioaccumulative
Potential** Not available

**Environment
Protection** Do not allow product to enter drains, waterways or sewers.

13. DISPOSAL CONSIDERATIONS

**Disposal
Considerations** The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

**Transport
Information** Australia:
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

New Zealand:
Not classified as Dangerous Goods for transport according to the NZS 5433:1999 Transport of Dangerous Goods on Land.

15. REGULATORY INFORMATION

**Regulatory
Information** Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

Poisons Schedule S5

**National and or
International
Regulatory
Information** New Zealand:
Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

16. OTHER INFORMATION

**Date of
preparation or
last revision of
MSDS** MSDS reviewed: March 2008

**Contact Person/
Point**

For further information contact Tom Sadler on 1300 884 078 during business hours. In case of emergency call Australia 1800 638 556/ New Zealand 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 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 Ajax Finechem 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

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