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Infosafe No™ 1CHC1 Issue Date: September 2017 RE-ISSUED by ACR

Product Name: **HYDROCHLORIC ACID 0.1 - <10.0%**

Classified as hazardous

1. Identification

GHS Product

HYDROCHLORIC ACID 0.1 - <10.0%

Identifier

AUSTRALIAN CHEMICAL REAGENTS (ACR) (ABN 19 008 264 211) **Company Name**

38 - 50 Bedford Street Gillman **Address**

S.A. 5013 Australia

Telephone/Fax Tel: (08) 8440 2000 Fax: (08) 8440 2001 Number Laboratory reagent. Recommended use

of the chemical and restrictions on use

Other Names Product Code <u>Name</u>

HYDROCHLORIC ACID 0.2N	0013
HYDROCHLORIC ACID 3.0% w/v	0471
HYDROCHLORIC ACID 0.15N	4248
HYDROCHLORIC ACID 0.1N	0012
HYDROCHLORIC ACID 0.25N	0014
HYDROCHLORIC ACID 0.5N	0015
HYDROCHLORIC ACID 0.6N	0893
HYDROCHLORIC ACID 0.8N	4079
HYDROCHLORIC ACID 1.0% v/v	1949
HYDROCHLORIC ACID 0.100M	3879
HYDROCHLORIC ACID 0.12 to 0.14M	5929
HYDROCHLORIC ACID 0.13 to 0.15M (A)	5930A
HYDROCHLORIC ACID 0.13 to 0.15M (B)	5930B
HYDROCHLORIC ACID 0.1315N	5397
HYDROCHLORIC ACID 0.161N (N/6.2)	3404
HYDROCHLORIC ACID 0.4N	2861
HYDROCHLORIC ACID 1.000N	0016
HYDROCHLORIC ACID 1.5N	4348
HYDROCHLORIC ACID 15% v/v	5611
HYDROCHLORIC ACID 16% v/v	5766
HYDROCHLORIC ACID 2% w/v	5359
HYDROCHLORIC ACID 2.5N	2538
HYDROCHLORIC ACID 25% v/v	0832
HYDROCHLORIC ACID 3% w/v	0471
EMERCENCY CONTACT NUMBER	

Other Information EMERGENCY CONTACT NUMBER:

+61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.

Australian Chemical Reagents (ACR) does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Australian Chemical Reagents (ACR) with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Chemical Reagents (ACR) is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

Corrosive to Metals: Category 1 **GHS** classification

of the

substance/mixture

Signal Word (s) WARNING

Hazard Statement

(s)

H290 May be corrosive to metals.

Pictogram (s) Corrosion

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Risk Phrase

Hazard Symbol

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Precautionary

P234 Keep only in original container.

statement -Prevention

Precautionary

P390 Absorb spillage to prevent material damage.

statement -Response

Precautionary

P406 Store in corrosive resistant container with a resistant inner liner.

statement - Storage

Precautionary statement -Disposal

P501 Dispose of contents/container according to local, state and federal regulations.

3. Composition/information on ingredients Liquid

Chemical

Characterization

Information on

Aqueous solution of the gas hydrogen chloride.

Composition Ingredients CAS Name Proportion

> Water 7732-18-5 >=90-99.9 % Hydrochloric acid 7647-01-0 >=0.1-9.9 %

4. First-aid measures

Inhalation Remove from exposure, rest and keep warm. If symptoms persist, obtain medical attention.

Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. Seek Ingestion

medical advice if effects persist.

Wash affected areas with copious quantities of water immediately. Remove contaminated clothing If Skin

irritation occurs seek medical advice.

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Eye contact

Seek medical attention.

First Aid Facilities Maintain eyewash fountain and drench facilities in work area.

Advice to Doctor Treat symptomatically as for acids.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764

766) or a doctor.

5. Fire-fighting measures

Suitable

Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical,

extinguishing media carbon dioxide, or appropriate foam.

Specific hazards arising from the

Material does not burn. Runoff may pollute waterways.

chemical

Hazchem Code 2R

6. Accidental release measures

Spills & Disposal Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, or confined areas. Cover with DRY earth, sand or other compatible, non-combustible material

followed by a plastic sheet to minimize spreading or contact with rain. Use clean, non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.

SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Protection Use personal protective equipment listed in Section 8.

7. Handling and storage

Precautions for Safe Avoid ingestion and inhalation of gas/fumes/vapour/spray mist. Avoid contact with eyes, on skin, or clothing. Use only with adequate ventilation. Handling

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Conditions for safe storage, including

Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep well closed and

protected from direct sunlight and moisture. Do not store in metal containers.

any incompatabilities

Corrosiveness Very corrosive to most metals. Rubber-lined steel, Haveg, Hastelby and tantalum, are the most

commonly used corrosion-resistant materials of construction. Rubber, glass, plastic and ceramic ware

are also resistant to corrosion.

Store at room temperature (15 to 25 °C recommended). Storage

Temperatures

|--|

Occupational	<u>Name</u>	STEL	TWA
ovnocuro limit			

exposure limit values

> <u>mg/m3</u> mg/m3 ppm ppm **Footnote** Hydrochloric acid 7.5 Hydrogen chloride Peak

Limitation

Other Exposure Information

A time weighted average (TWA) has been established for Hydrogen chloride (Worksafe Aust) of 7.5 mg/m³ (Peak limitation), (5 ppm). The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted

Appropriate

engineering controls average). Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flame proof exhaust ventilation system is required. Refer to AS 1940-The storage and handling of flammable and combustible liquids and AS 2430-Explosive gas atmospheres for further

information concerning ventilation requirements.

Respiratory **Protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and

Eye Protection

respirator type depends on exposure levels. The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Excellent: NR latex, nitrile and neoprene. Supported Polyvinyl

Chloride (PVC) gloves. Unsupported Butyl. Unsupported Viton.

Body Protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other

protective equipment before storing or re-using.

9. Physical and chemical properties

Form Liquid

Clear, colourless to light yellow liquid. **Appearance**

Odour Odourless to slight, characteristic, irritating odour.

Approximately 0 °C (based on data for water); weighted average: -2.32 °C (3%); -18 °C (10%). **Melting Point**

Approximately 100 °C. **Boiling Point**

Miscible (soluble) in all proportions. Solubility in Water

Solubility in Organic Soluble in alcohols, diethyl ether and benzene; insoluble in hydrocarbons.

Solvents

(Air=1)

Approximately 1. **Specific Gravity**

For HCl solutions: 0.1 (1.0 N), 1.1 (0.1 N), 2.02 (0.01 N).

Vapour Pressure Essentially the same as water; 0.527 Pa (10%).

Vapour Density

Essentially the same as water (0.62).

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Evaporation Rate Essentially the same as water (0.36) (BuAc=1).

Flammability Non combustible material.

10. Stability and reactivity

Chemical Stability Stable at normal temperatures, pressures and conditions of use or storage.

Conditions to Avoid Metals and incompatible materials.

Incompatible Metals, bases (e.g. sodium hydroxide, amines), aldehydes, epoxides, reducing agents, oxidizing agents, Materials permanganates, explosives, acetylides, borides, carbides, silicides, cyanides, sulfides and phosphide.

11. Toxicological Information

Ingestion May cause burns to mouth, throat and stomach.

Inhalation May be harmful if inhaled.

Skin Liquid is slightly to highly irritating to skin and may cause burns.

Eye Liquid is irritating to highly irritating to eyes and may cause scarring of the cornea (based on animal

data). Vapour may cause eye irritation.

Carcinogenicity Hydrochloric acid [7647-01-0] is evaluated in the IARC Monographs (Vol. 54; 1992) as Group 3: Not

classifiable as to carcinogenicity to humans.

Mutagenicity No human information is available. Questionable positive results reported in some short-term tests.

Negative results in some in-vitro mammalian cell tests.

12. Ecological information

Ecotoxicity Quantitative data on the ecological effect of this product are not available.

The following applies to HCl in general: Harmful effect on aquatic organisms. Harmful effect due to pH

shift. Does not cause biological oxygen deficit. Do not allow to enter waters, waste water, or soil!

Environmental

Protection

13. Disposal considerations

Disposal Dispose of according to relevant local, state and federal government regulations.

Considerations

14. Transport information

Transport Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: -

Information Class 1, Class 5, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8

dangerous goods are acids and Class 7.

U.N. Number 1789

UN proper shipping HYDROCHLORIC ACID

name

Transport hazard

class(es)

8

Hazchem Code

Poisons Schedule

2R

Packaging Method 3.8.8RT8

Packing Group III IERG Number 40

45 5 1 1 1 1 1

15. Regulatory information

16. Other Information

Literature 'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia,

References November 2016.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons,

Inc., NY, 1997.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road

and Rail 7th. Ed.', 2007.

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous

Chemicals', 2011.

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Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',

Standards Australia/Standards New Zealand, 2010.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances

2011)

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational

Environment [NOHSC:1003(1995) 3rd Edition]'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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