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Infosafe No™ 1CH34

Product Name HYDROCHLORIC ACID 25 - 36%

Classified as hazardous

Material Safety Data Sheet

Issue Date :July 2022

	• ,•			
Section 1 - Identif	ication			
<b>Product Identifier</b>	HYDROCHLORIC ACID 25 - 36%			
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 1	9 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia			
Telephone/Fax Number	Tel: (08) 8440-2000			
Emergency Phone Number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)			
E-mail Address	www.chemsupply.com.au			
Recommended use of the chemical and restrictions on use	and solvent in organic synthesis; c chlorides (ammonium chloride), phos used in the manufacture of fertiliz and pigments for paints and synthet as a starch modifier, alcohol denat glutamate, gelatin, in the brewing metal cleaning; recovery of zinc fr acidising in electroplating, leathe refining, textile industry; pharmac e.g. of membrane in desalination pl	wells; boiler scale removal; as catalyst hemical intermediate in the production of phoric acid, chlorine dioxide, isocyanate; ers, dyes and dyestuffs, artificial silk ic rubber; ore reduction; food processing urant (manufacture of corn syrup, sodium industry, in sugar refining); pickling and om galvanized iron scrap; industrial r tanning, photographic industry, soap eutic aid (acidifier); general cleaning, ants; ion-exchange resin regeneration tion); pH control (water treatment); and		
Other Names	Name	Product Code		
	HYDROCHLORIC ACID 32% AR HYDROCHLORIC ACID 32% LR HYDROCHLORIC ACID 32% TG Muriatic acid, Spirits of salts, Hydrogen chloride solution	HA020 HL020 HT020		
Other Information	for any use or purpose. The user mu before use or application intended before use or application is recomm upon ChemSupply Australia Pty Ltd w advice in relation to the suitabili disclaimed. Except to the extent pr any statute as to the merchantable purpose is hereby excluded. This pr provisions of Part V, Division 2 of liability of ChemSupply Australia P supply of equivalent goods or payme acquiring equivalent goods.	ot warrant that this product is suitable st ascertain the suitability of the product purpose. Preliminary testing of the product ended. Any reliance or purported reliance ith respect to any skill or judgement or ty of this product of any purpose is ohibited at law, any condition implied by quality of this product or fitness for any oduct is not sold by description. Where the the Trade Practices Act apply, the ty Ltd is limited to the replacement of nt of the cost of replacing the goods or		
Section 2 - Hazard	d(s) Identification			
GHS Classification of the Substance/Mixture	Skin Corrosion/Irritation: Category Specific Target Organ Toxicity Sing irritation) Corrosive to Metals: Category 1	1B le Exposure Category 3 (respiratory tract		
C1 1 1 1 1	DANGED			

Signal Word	DANGER
Hazard Statement (s)	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.
Pictogram (s)	Corrosion, Exclamation mark



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Product Name	HYDROCHLORI	IC ACID 25 - 36%			
		Classified as hazardous	3		
		$\langle \cdot \rangle$			
Precautionary Statement – Prevention	P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.				
Precautionary Statement – Response	<pre>P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P363 Wash contaminated clothing before reuse. P337+P313 If eye irritation persists: Get medical advice/attention. P390 Absorb spillage to prevent material damage.</pre>				
Precautionary Statement – Storage	P405 Store l	ore in a well-ventilated place. ocked up. .n corrosive resistant container			
Precautionary Statement – Disposal	P501 Dispose regulations.	e of contents/container according			
		ormation on Ingredients			
Ingredients	<u>Name</u> Water	<u>CAS</u> 7732-18-5	Proportion 64-75 %		
Information on Composition	Hydrochloric Aqueous solu	acid 7647-01-0 ntion of the gas hydrogen chlorid	25-36 % de.		
Section 4 - First A	id Measures				
Inhalation		exposure, rest and keep warm.			
Ingestion	artificial respiration. If breathing is difficult, give oxygen. If rapid recovery does not occur, obtain medical attention. Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.				
Skin	If skin or h and hair wit	air contact occurs, remove conta Th running water. Remove contam: The urgent medical assistance.	aminated clothing and flush skin inated clothing and wash before		
Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical assistance.				
First Aid Facilities	Maintain eye	wash fountain and drench facilit	ties in work area.		
Advice to Doctor	the patient.		doctor and individual reactions of		
Other Information	Treat symptomatically as for strong acids. For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.				
Section 5 - Firefig	hting Measures	s			
Suitable Extinguishing Media		inguishing media appropriate for dry chemical, carbon dioxide, c			



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### Product Name HYDROCHLORIC ACID 25 - 36%

	Classified as hazardous
Hazards from Combustion Products	Irritating and highly toxic fumes of hydrogen chloride. Can react with metals generating flammable hydrogen gas.
Specific Methods	When material is not involved in fire: Do not use water on material itself.
Hazchem Code	2R
Decomposition Temperature	>1500 $^{\circ}\text{C}$ (decomposition of hydrogen chloride to hydrogen and chlorine).
Precautions in connection with Fire	Wear SCBA and acid-resistant chemical splash suit.

## Section 6 - Accidental Release Measures

Spills & Disposal	Evacuate unprotected personnel from danger area. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours - Water spray may be used to knock down or divert vapour clouds. DO NOT GET WATER INSIDE CONTAINERS. Small Spill: Cover with DRY earth, sand or other 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.
<b>Personal Precautions</b>	Avoid contact with substance, do not breathe vapours.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.
Environmental Precautions	Do not discharge to the environment or sewer ststem. Prevent further leaking if safe to do so. If product contaminates rivers and lakes or drains inform respective authorities.

## Section 7 - Handling and Storage

Precautions for Safe Handling	Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. When diluting, the acid should always be added slowly to water and in small amounts. Never use hot water and never add water to the acid. Keep away from incompatibles such as oxidizing agents, organic materials, metals, alkalis, moisture/water.
Conditions for safe storage, including any incompatibilities	<pre>Store in original container, tightly closed, in a cool, dry, well-ventilated storage area with acid resistant floors. Store away from incompatible substances. Do not store in metal containers. Containers of this material may be hazardous when empty since they retain product residues (vapours, liquid); observe all warnings and precautions listed for the product.</pre>
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.
Storage Regulations	Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.
Storage Temperatures	Store in a cool place (below 25 °C).

## Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limit	Name		STEL	т	WA	
(OEL) Values		mg/m3	ppm	mg/m3	ppm	Footnote



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Product Name	HYDROCHLORI	C ACID 25 - 36%				
		Classified as hazardou	us			
	Hydrochloric	acid	7.5	5	Hydrogen chloride Peak Limitation	
Other Exposure Information	Work Australi the TWA is th	A time weighted average (TWA) has been established for Hydrogen chloride (Safe Work Australia) of 7.5 mg/m <sup>3</sup> (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.				
Engineering Controls	Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted average).In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.					
Respiratory Protection	Avoid breathin with AS 1716 with AS 1715 Devices. When the following	tion is not adequate, respirating vapours or mists. Select - Respiratory Protective Devi - Selection, Use and Maintena mists or vapours exceed the is recommended: Approved res ters. Filter capacity and re	and use r ces and b ance of Re e exposure pirator w	cespirators i be selected i espiratory Pr e standards t with organic	n accordance n accordance otective hen the use of vapour and	
Eye and Face Protection	protection as	face shield, chemical goggles appropriate. Must comply wi and used in accordance with AS	th Austra			
Hand Protection	Selection, us	on should comply with AS 2161 e and maintenance. Recommend nitrile, neoprene gloves.		ional protec Excellent:	2	
Personal Protective Equipment		of personal protective equipm and/or according to risk ass			dividual	
Footwear		in industrial situations is a S 2210, Occupational protecti				

comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
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. Recommendation: Natural rubber apron
Hygiene Measures
Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or

#### re-using. Section 9 - Physical and Chemical Properties Liquid Form Clear, colourless or slightly yellow liquid. Tendency to fume at higher Appearance concentrations. Strong, pungent, choking, irritating odour of hydrogen chloride. Odour -52 °C (30%); -46.2 °C (31.24%); -43 °C to -42 °C (32%); -34 °C (33%); -36 °C (34%); -35 °C (35%); -30 °C (36%). **Melting Point** 90 °C (30%); 83 °C @ 760 mm Hg (31%); 79 °C at 1013 hPa (32%); 71 °C (34%); 61 **Boiling Point** $^\circ\text{C}$ (36%) (Boiling weaker or stronger aqueous solution results in loss of either component until constant boiling acid is obtained.) >1500 °C (decomposition of hydrogen chloride to hydrogen and chlorine). Decomposition Temperature Solubility in Water Soluble in all proportions with slight evolution of heat (56.1 g/100 ml at 60 ml)

Solubility in water	bolable in all proporcions with bilght evolution of near (00,1 g/100 mil at 00
·	°C; 67 g/100 ml at 30°C; 82.3 g/100 ml at 0 °C).
Solubility in Organic	Very soluble in alcohols; soluble in diethyl ether and benzene; insoluble in
Solvents	hydrocarbons.
Specific Gravity	1.15 (29.57%); 1.159 (32%); 1.19 (33%); 1.169 (34%); 1.18 (35%); 1.179 (36%).
рН	-1.0 (30% (w/w)); -1.0 (32% (w/w)); -1.0 (34% (w/w)); -1.1 (36% (w/w)) (strongly acidic).



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Product Name	HYDROCHLOR	IC ACID 25 -	36%			
		Classif	ied as hazardous			
Vapour Pressure		0.76 kPa (25%); 1.41 kPa (30%); 3.13 kPa (32%); 6.73 kPa (34%); 11.2 kPa (35%); 14.1 kPa (36%).				
Relative Vapour Density (Air=1)	1.268.					
<b>Evaporation Rate</b>	>1 (36%)					
Odour Threshold				5 ppm (irritating) (~35%). Warning s about the same magnitude as TLV.		
Volatile Component	Hydrogen Chl	oride Gas				
Partition Coefficient: n-octanol/water (log value)	log Pow: 0.2	5.				
Flammability	Non combusti	ble material.				
Molecular Weight	36.46					
Dynamic Viscosity	1.70 mPa·s (30%); 1.80 mPa·s (32%); 1.90 mPa·s (34%); 1.99 mPa·s (36%).					
Saturated Vapour Concentration	130,000 ppm at 20 °C (calculated) (~35%).					
Other Information	<pre>Index of refraction: 1.34168 @ 18 °C/D (1.0 N solution). Critical Temperature 51.5 °C (36-38%). Conversion Factor: 1 ppm = 1.49 mg/m<sup>3</sup>; 1 mg/m<sup>3</sup> = 0.67 ppm at 25 °C (about 35%).</pre>					
	Concentration (Baumé): 19 (30% (w/w)); 20 (32% (w/w)); 21 (34% (w/w)); 22 (36% (w/w)). (w/w)). Molarity: 9.45 M (30% (w/w)); 10.17 M (32% (w/w)); 10.90 M (34% (w/w)); 11.64					
	M (36% (w/w) Taste: Taste pure); 1.30	). threshold: 1. x 10-4 M/l (re	60 x 10-4 moles/1	(recognition in water, chemically , chemically pure); 1.10 x 10-4		
Section 10 - Stabil	ity and Reactiv	vity				
Chemical Stability	Stable at no	rmal temperatu	res, pressures and	conditions of use or storage.		
Possibility of Hazardous Reactions	water or wit Can react wi Reacts viole and pressure Reaction wit generating h	h organic solv th most metals ntly with base h aldehydes, c eat and pressu	rents. , generating flamm s (e.g. sodium hyd r epoxides may cau are.	oncentrated HCl is mixed with able hydrogen gas. roxide, amines), generating heat se violent polymerization, at, fire and flammable hydrogen		

Section 11 Toxicological Inform

Section 11 - Toxicological Information

chloride gases.

gas (e.g., acetylene).

temperatures of about 1500 °C.

Ingestion

May be fatal if swallowed. Corrosive! HCl solutions can cause immediate pain, severe irritation, severe corrosive burns, or ulceration to mouth, throat and gastrointestinal tract. Risk of perforation in the oesophagus and stomach.

May react with oxidizing agents, generating heat and toxic or corrosive

Contact with explosives may generate heat which could cause detonation. May react with acetylides, borides, carbides, silicides, producing flammable

May react with cyanides, or sulfides to release toxic gas (HCN or H2S). May react with phosphide to release toxic, flammable phosphine gas.

Metals, bases (e.g. sodium hydroxide, amines), aldehydes, epoxides, reducing

agents, oxidizing agents, permanganates, explosives, acetylides, borides,

Hydrogen chloride gas. Hydrogen chloride is thermally stable up to

Metals, excess heat and incompatible materials.

carbides, silicides, cyanides, sulfides and phosphide.

**Conditions to Avoid** 

Incompatible

Materials

Hazardous

Decomposition Products



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Product Name	HYDROCHLORIC ACID 25 - 36%
	Classified as hazardous
Inhalation	Symptoms may include difficulty in swallowing, intense thirst, salivation, nausea, vomiting (with 'coffee ground' emesis), diarrhoea, abdominal pain, strictures and stenosis (oesophageal, gastric, pyloric), peritonitis, gastric haemorrhage and infection, chills, fever, central nervous system effects (uneasiness, excitement), cardiovascular effects (weak rapid pulse, tachycardia), respiratory effects (shallow respiration, lung injury due to aspiration of acid (may be fatal)), urinary system effects (kidneys- renal failure, nephritis) and in severe cases, circulatory shock, cardiovascular failure (delayed), collapse and death. Can also cause erosion of tooth enamel. May be fatal if inhaled. Corrosive! The severity of effects depends on the concentration of the solution and the duration of contact. In general, HCl solutions and mist with a pH of 3 or less are a significant health concern. Vapour irritates and may cause severe irritation or possible corrosive effects on the mucous membranes of the respiratory tract with inflammation of the nose, throat, and upper respiratory tract, sore throat, coughing, shortness of breath and delayed lung oedema. Exposure to the mist and vapour may erode exposed teeth. Vapour or mist from concentrated solutions can cause severe nasal irritation, sore throat, choking, coughing and difficulty breathing. Prolonged exposures can cause burns and ulcers to the nose and throat, peeredie of bronebial enithelium constriction of the larvery and breaching.
Skin	necrosis of bronchial epithelium, constriction of the larynx and bronchi, nasal perforation, and glottal closure. Severe exposures (1000 to 2000 ppm and higher) for even a few minutes, can cause an accumulation of fluid in the lungs (pulmonary oedema), circulatory failure, and death. Symptoms of pulmonary oedema such as shortness of breath can be delayed for several hours after the exposure. May affect the liver. Strongly corrosive! Contact with liquid is corrosive and causes severe burns and ulceration. The severity of injury depends on the concentration of the solution and the duration of exposure. Concentrated solution causes deep ulcers and skin discolouration. Hydrochloric acid liquid can cause severe irritation (redness, swelling, and pain) and corrosive skin damage with permanent scarring (or even death). High vapour or mist concentration may
Eye	cause redness, irritation and burns to skin if contact is prolonged. Skin covered by perspiration-dampened clothing can also be affected. Strongly corrosive! Low concentrations of vapour or mist can be immediately irritating, causing redness. Concentrated vapour, mist or splashed liquid can cause severe irritation, conjunctivitis, burns (may be severe), and irreversible eye damage (corneal necrosis). Risk of blindness! May cause
Carcinogenicity	painful sensitization to light. 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.
Chronic Effects	Repeated exposure to low concentrations of HCl acid mist or vapour may cause bleeding of nose and gums, damage to the mucous membranes, and brownish discolouration and damage to tooth enamel. Dental erosion becomes more severe with increased exposure. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Prolonged exposure may cause dyspnoea, chronic bronchitis, chemical pneumonitis and pulmonary oedema. Chronic stomach pain (gastritis) has also been reported. May cause damage to the kidneys, liver, or circulatory system. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated exposure to low concentrations of acid solutions, mist or vapour can cause redness, swelling and pain (dermatitis). Long term exposures seldom occur due to the corrosive properties of the acid. Prolonged exposure may cause conjunctivitis, photosensitization,

## Section 12 - Ecological Information

Ecotoxicity	Toxic for aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Damage to plant growth. Does not cause biological oxygen deficit.
Environmental Protection	Do not allow to enter waters, waste water, or soil!



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Classified as hazardous

Section 13 - Disposal Considerations		
Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.	
Section 14 - Trans	port Information	
Transport Information	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.	
ADG UN Number	1789	
ADG Proper Shipping Name ADG Transport Hazard Class	HYDROCHLORIC ACID 8	
ADG Packing Group	II	
Hazchem Code	2R	
EPG Number	8A1	
IERG Number	40	
Environmental Hazards	Toxic for aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Damage to plant growth. Does not cause biological oxygen deficit.	
Section 15 - Regulatory Information		
Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).	
Poisons Schedule	S6	
Section 16 - Any Other Relevant Information		
Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of	
Contact Person/Point	Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical	
Empirical Formula & Structural Formula	representatives. Cl-H; HCl·H2O; HCl·3H2O; HCl·6H2O. (There are four constant-crystallization eutectic points for hydrochloric acid, between the crystal form of HCl·H2O (68% HCl), HCl·2H2O (51% HCl), HCl·3H2O (41% HCl), HCl·6H2O (25% HCl), and ice (0% HCl). There is also a metastable eutectic point at 24.8% between ice and the HCl·3H2O crystallization.)	



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