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Infosafe No™ 1CH2U

Issue Date :November 2022 RE-ISSUED by CHEMSUPP

Product Name FORMIC ACID 85 - 99%

Classified as hazardous

Section 1 - Identif	ïcation	
Product Identifier	FORMIC ACID 85 - 99%	
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 00	08 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000	
Emergency Phone Number	CHEMCALL 1800 127 406 (Australia) / +6	54-4-917-9888 (International)
E-mail Address	www.chemsupply.com.au	
Recommended use of the chemical and restrictions on use	Dyeing and finishing of textile; leather oxalic acid, organic esters); manufactur refrigerants; solvents for perfumes, la (antiseptic); silvering glass, cellulos flotation; vinyl resin plasticizers and	er treatment; chemicals (formates, are of fumigants, insecticides, acquers; electroplatng; brewing se formate; natural latex coagulant; ore a laboratory reagent.
Other Names	Name	Product Code
	Methanoic Acid FORMIC ACID 90% AR FORMIC ACID 98% AR FORMIC ACID 85% LR FORMIC ACID 85% TR	FA040 FA059 FL004 FT004
Other Information		
	ChemSupply Australia Pty Ltd does not w for any use or purpose. The user must a before use or application intended purp before use or application is recommende upon ChemSupply Australia Pty Ltd with advice in relation to the suitability of disclaimed. Except to the extent prohik any statute as to the merchantable qual purpose is hereby excluded. This produc provisions of Part V, Division 2 of the liability of ChemSupply Australia Pty I supply of equivalent goods or payment of acquiring equivalent goods.	Arrant that this product is suitable ascertain the suitability of the product bose. Preliminary testing of the product ed. Any reliance or purported reliance respect to any skill or judgement or of this product of any purpose is bited at law, any condition implied by ity of this product or fitness for any it is not sold by description. Where the a Trade Practices Act apply, the of the cost of replacing the goods or

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Flammable Liquids: Category 3 Skin Corrosion/Irritation: Category 1A Acute Toxicity - Inhalation: Category 3 Acute Toxicity - Oral: Category 4 Specific target organ toxicity (single exposure): Category 3
Signal Word	DANGER
Hazard Statement (s)	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H331 Toxic if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation
Pictogram (s)	Flame, Corrosion, Skull and crossbones
Precautionary Statement – Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting//equipment.



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Product Name	FORMIC ACID	85 - 99%			
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Precautionary Statement – Response	P242 Use only P243 Take pred P260 Do not bu P264 Washthord P270 Do not ea P271 Use only P280 Wear prot protection. P301+P330+P331 P303+P361+P353 contaminated of P304+P340 IF 1 position comfo P305+P351+P338 Remove contact P310 Immediate P370+P378 In of extinction.	non-sparking t cautionary meas reathe fume/gas oughly after ha at, drink or sm outdoors or in rective gloves/ IF SWALLOWED: B IF ON SKIN (o clothing. Rinse THALED: Remove ortable for bre IF IN EYES: R lenses, if pr ely call a POIS case of fire: U	ools. ures against /mist/vapour ndling. oke when usi: a well-vent protective c rinse mouth r hair): Rem skin with w. victim to f athing. inse cautiou esent and ea ON CENTER or se dry chemi	static dis s/spray. ng this pro ilated area lothing/eye . Do NOT in ove/Take of ater/shower resh air an sly with wa sy to do. C doctor/phy cal, CO2 or	charge. duct. protection/face duce vomiting. f immediately all d keep at rest in a ter for several minutes. ontinue rinsing. sician. water spray for
Precautionary Statement – Storage	P403+P235 Stor P405 Store loc	re in a well-ve ked up.	ntilated pla	ce. Keep co	ol.
Precautionary Statement – Disposal	P501 Dispose o regulations.	of contents/con	tainer accor	ding to loc	al, state and federal

Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion	
	Formic Acid	64-18-6	85-99 %	
Section 4 - First A	Aid Measures			
Inhalation	If inhaled, remove artificial respire oxygen. Immediate	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.		
Ingestion	Rinse mouth thorou product have been advice.	ighly with water immed removed. DO NOT INDUC	iately, repeat until all traces of E VOMITING. Seek immediate medical	
Skin	Remove contaminate rapid recovery doe If skin or hair co and hair with runn	ed clothing and wash a es not occur, obtain m ontact occurs, remove ning water. Seek medic	ffected skin with soap and water. If edical attention contaminated clothing and flush skin al attention.	
Eye	Immediately irriga be held open. Cont Information Centre medical assistance	ate with copious quant tinue flushing until a e or a doctor, or for e.	ity of water continuously. Eyelids to dvised to stop by the Poisons at least 15 minutes. Seek immediate	
First Aid Facilities	Maintain eyewash b	fountain and safety sh	ower in work area.	
Advice to Doctor	Treat symptomatica the patient.	ally based on judgemen	t of doctor and individual reactions of	
Other Information	If poisoning occur 1126 from anywhere	rs, contact a Doctor o e in Australia.	r Poisons Information Centre. Phone 13	

Section 5 - Firefighting Measures

Hazards from Combustion Products	Carbon dioxide and carbon monoxide.
Specific Methods	Small fire: Use dry chemical, CO2 or water spray. Large fire: Use water spray, fog or foam - Do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.
Specific Hazards Arising from the Chemical	May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire will produce irritating, poisonous and/or corrosive gases.



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Product Name	FORMIC ACID 85 - 99%
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Hazchem Code	2X
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.
Section 6 - Accide	ntal Release Measures
Spills & Disposal	Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. Do NOT touch or walk through spilled product. 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, confined areas. Cover with plastic sheet to prevent spreading. Absorb spill with earth, sand or other non-combustible material and transfer to container. DO NOT GET WATER INSIDE CONTAINERS. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Precautions	Evacuate the area of all non-essential personnel. Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
G 4 ² 7 II	

Section 7 - Handling and Storage

Precautions for Safe Handling	Handle and open containers with care. When opening containers, avoid inhalation of headspace gases. Use in a well-ventilated area. Prevent formation of aerosols.
Conditions for safe storage, including any incompatibilities	Store away from sources of heat or ignition. Store away from oxidizing agents. Store away from combustible materials. Keep containers securely sealed and protected against physical damage.
Corrosiveness	Metal containers.
Storage Regulations	Refer Australian Standard AS 3780 - 1994 'The Storage and Handling of Corrosive Substances'.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limit (OEL) Values	Name	s	TEL	נ	WA	
. ,		mg/m3	ppm	mg/m3	ppm	Footnote
	Formic Acid	19	10	9.4	5	
Other Exposure Information	A time weighted average Australia) of 9.4 mg/m3, (10 ppm). The STEL (Shor should not be exceeded f more than 4 times per da successive exposures at airborne concentration o 8 hour working day for a	(TWA) has b (5 ppm). t Term Expo or more tha y. There sh the STEL. T f a particu 5 day work	een estak The corre sure Limi n 15 minu ould be a he exposu lar subst ing week.	olished for esponding 3 Lt) is an 4 utes and 8 at least 6 ure value 4 tance when	r Formic STEL lev exposure hould nc O minute at the T calcula	c acid (Safe Work rel is 19 mg/m3, e value that bt be repeated for es between CWA is the average tted over a normal
Engineering Controls	In industrial situations This may be achieved by y ventilation, capturing s	maintain t process mod ubstances a	he concer ificatior t the sou	ntrations n, use of 1 nrce, or o	values k local ex ther met	below the TWA. Chaust Chods.
Respiratory Protection	Where ventilation is not Avoid breathing dust, va with AS 1716 - Respirato with AS 1715 - Selection Devices. Filter capacity event of emergency or pl pressure, full-facepiece required, institute a co selection, fit testing,	adequate, pours or mi ry Protecti , Use and M and respir anned entry SCBA shoul mplete resp training, m	respirato sts. Resp ve Device aintenanc ator type into unk d be usec iratory p aintenanc	bry protection piratory protection and be a ce of Resp. de depends of known conco d. If resp. protection ce and insp	tion may rotectic selected iratory on expos entratic iratory program pection.	y be required. on should comply d in accordance Protective sure levels. In ons a positive protection is a including



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Eye and Face Protection	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.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
Footwear	Safety boots in industrial situations is advisory, foot protection should 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 and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Colourless, fuming liquid.
Odour	Pungent, penetrating odour
Melting Point	8 °C
Boiling Point	101 °C
Solubility in Water	Miscible in all proportions.
Solubility in Organic Solvents	Miscible with alcohol, ether and glycerol.
Specific Gravity	(99%) 1.220 (90%) 1.2
Vapour Pressure	35 mm Hg @ 20 °C
Relative Vapour Density (Air=1)	1.6 (air=1)
Odour Threshold	20 ppm
Partition Coefficient: n-octanol/water (log value)	log Pow: -2.1 (23°C)
Flash Point	48 °C c.c.
Flammability	Combustible.
Auto-ignition Temperature	480 °C
Flammable Limits - Lower	12 %
Flammable Limits - Upper	38 %
Molecular Weight	46.03

Section 10 - Stability and Reactivity

Reactivity	Vapours/air mixtures are explosive at intense heating.
Chemical Stability	Stable under normal use conditons. Heat and light sensitive.
Possibility of Hazardous Reactions	Risk of explosion with sodium hypochlorite, hydrogen peroxide, organic nitro compounds and furfuryl alcohol. May generate dangerous fumes when in contact with strong oxidising agents, sulfuric acid, nitric acid, alkalines, nitrates, phosphorus oxides and non-metallic oxides.
Conditions to Avoid	Heating

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Product Name	FORMIC ACID 85 - 99%
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Incompatible Materials	Oxidisers, bases, reducing agents.
Hazardous Polymerization	Will not occur.
Section 11 - Toxic	ological Information
Toxicology Information	This substance should be treated with great care.
Ingestion	Cause severe burns to the mouth, throat and stomach.
Inhalation	Inhalation of vapours can cause severe irritation of nose, throat, and upper repiratory tract. Inhalation of higher concentrations may cause central nervous system effects and respiratory/lung damage.
Skin	Causes severe burns. Symptoms of redness and pain can occur.
Eye	Causes severe burns and eye damage. Risk of blindness.
Carcinogenicity	Not listed in the lake Monographs.
Toxicity	Relenged or reproductive effects.
	and burns. Prolonged or repeated exposure may cause liver and kidney damage.
Section 12 - Ecolo	gical Information
Ecological Information	No ecology data available for this product.
Ecotoxicity	Harmiul effect due to pH shift.
Bioaccumulative Potential	NO DIDACCUMULATION IS to be expected (log P(0/W) <1.0).
Environmental Protection	Do not discharge to the environment.
Section 13 - Dispo	osal Considerations
Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.
Container Disposal	Treat as the product itself.
and Methods	
Section 14 - Trans	sport 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 guantity.
ADG UN Number	1779
ADG Proper Shipping Name	FORMIC ACID
ADG Transport Hazard Class	8
ADG Subsidiary Hazard	3
ADG Packing Group	II
Hazchem Code	2X
EPG Number	8A1
IERG Number	36

Section 15 - Regulatory Information



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Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).	
Poisons Schedule	S5	
Section 16 - Any Other Relevant Information		
Literature References	Commonwealth Department of Health and Aged Care, 'Standard for the Uniform Scheduling of Drugs and Poisons No. 18', Commonwealth of Australia, Canberra 2002. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley & Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998. South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995. Standards Australia, 'SAA/SNZ HB76:1997 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 1997. Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]', AusInfo, Canberra 1999. Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AusInfo, Canberra 1999. Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994. Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.	
Contact Person/Point	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 representatives.	
Empirical Formula & Structural Formula	CH2 O2	

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