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Infosafe No™

1CH3B Issue Date : September 2020 Product Name : FERRIC CHLORIDE Anhydrous

Classified as hazardous

1. Identification	
GHS Product	FERRIC CHLORIDE Anhydrous
Identifier	
Company Name Address	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211) 38 - 50 Bedford Street GILLMAN
Address	SA 5013 Australia
Telephone/Fax Number	Tel: (08) 8440-2000
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)
Recommended use of the chemical and restrictions on use Other Names	Treatment of sewage and industrial wastes; etching agent for engraving, photography and printed circuitry; condensation catalyst in Friedel-Crafts reactions; mordant; oxidising agent, chlorinating agent, condensing agent; disinfectant; pigment; feed additive; water purification and laboratory reagent. Name Product Code
Other Names	
Additional Information	IRON(III) CHLORIDE Anhydrous LR FL022 Iron (III) chloride anhydrous, Iron trichloride When used for laboratory chemical analysis, it has no poison schedule. If this compound is used in human or animal application then it may acquire a poison schedule of S6, S5, S4 or S2.
Other Information	Chem-Supply Pty Ltd 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 Chem-Supply Pty Ltd 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 Chem-Supply Pty Ltd 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 Identif	ication
GHS classification	Acute Toxicity - Oral: Category 4
of the	Skin Corrosion/Irritation: Category 1B
substance/mixture Signal Word (s)	DANGER
Hazard Statement (s) Pictogram (s)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. Corrosion, Exclamation mark
Precautionary statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. 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. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
	breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Print Date: 14/09/2020	CS: 1.7.2



RE-ISSUED by CHEMSUPP

info**safe** CS: 1.7.2

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Infosafe No™	1CH3B Issue	e Date : Sept	ember 2020	RE-ISSUED b	V CHEMSUPP
Product Name : I	FERRIC CHLORIDE Anhy	vdrous			
	-	, assified as ha	zardous		
Precautionary	P405 Store locked up.				
statement – Storage Precautionary statement – Disposal		tainer to an app	roved waste dispoa	Il plant.	
3. Composition/i	nformation on ingredient	ts			
Chemical	Solid				
Characterization Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
ingreatents	Iron (III) Chloride Anhydrous	<u>CAS</u> 7705-08-0	100 %	<u>Hazaru Symbol</u>	nisk Fillase
		7703-00-0	100 /8		
4. First-aid meas Inhalation	If inhaled, remove from contan	ninated area to	fraah air immadiata	ly If broathing is diff	ioult aive everen
IIIIaiation	Apply artificial respiration with				
	resuscitation. Immediately med	dical attention is	s required.	-	
Ingestion	Rinse mouth thoroughly with w DO NOT INDUCE VOMITING.				been removed.
Skin	Wash affected areas with copie	ous quantities o	of water immediately		ated clothing and
	wash before re-use. Seek me			minuton Evolido to b	a hald anan
Eye contact	Immediately irrigate with copio Obtain medical attention imme		ater for at least 15	minutes. Eyenas to b	e neid open.
First Aid Facilities	Eye wash fountains and safety		d be available for e	mergency use.	
Advice to Doctor	Treat symptomatically based o	on judgement of	doctor and individu	al reactions of the pa	atient.
Other Information	For advice, contact a Poisons 766) or a doctor at once.	Information Cer	ntre (Phone eg Aust	ralia 13 1126; New Z	ealand 0800 764
5. Fire-fighting m	easures				
Hazards from	Liberates toxic and corrosive fu	umes of hydrog	en chloride gas, hy	drochloric acid and ir	on oxides. Produc
Combustion Products	is itself does not burn.				
Specific Methods	When material is not involved	in fire: Do not u	se water on materia	al itself. Use extinguis	hing media most
	appropriate for the surrounding	g fire.		-	0
	Small fire: Use CO2, dry chem Large fire: Flood fire with large				vater fog
Hazchem Code	2X		ater while knocking	uowin vapours with v	valer log.
Decomposition	>300 °C				
Temp.					
Precautions in connection with Fire	Wear SCBA and acid-resistant	t chemical splas	sh suit.		
6. Accidental rele					
Spills & Disposal	Do not touch or walk through s	pilled material.	Do not touch dama	ged containers or sp	illed material
	unless wearing appropriate pro				
	drains or confined areas. Small Spill: Cover with DRY ea	orth cond or oth	or non combuctible	material followed by	a plactic choot to
	minimize spreading or contact				
	loosely-covered plastic contain	ners for later dis	posal.		
Personal Precautions	Evacuate the area of all non-ex do not inhale dusts. Ensure su	ssential personi	nel. Avoid substand	ce contact. Avoid ger	eration of dusts:
	Wear protective clothing speci				
7. Handling and s	storage				
Precautions for Safe	Do not eat, drink or smoke whe				
Handling	available when handling this pu off contaminated clothing and s contaminated				

contaminated.



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nfosafe No™	1CH3B	Issue Date : Septe	mber 202	0 RE	E-ISSUED	D by CHEMSUPF
Product Name :		Anhydrous				
		Classified as haz	ardous			
Conditions for safe torage, including ny	Store away from oxidizing room temperature (15 - 29		ners closed	at all times.	Keep conta	ainer dry Store at
ncompatabilities Corrosiveness	Highly corrosive to most r	metals in the presence	e of moisture	9.		
torage Regulations	Refer Australian Standard	AS 378 'The storage	and handlir	ng of corrosiv	e substanc	es'.
. Exposure cont	rols/personal protec	tion				
occupational xposure limit alues	<u>Name</u>	S	TEL	т	WA	
	Iron (III) Chloride Anhydro	<u>mg/m3</u> ous	<u>ppm</u>	<u>mg/m3</u> 1	<u>ppm</u>	<u>Footnote</u> Iron salts, soluble (as Fe)
Other Exposure	These Workplace Exposu hazards. All atmospheric workplace exposure stand concentrations of chemica A time weighted average Australia) of 1 mg/m ³ . The particular substance when	contamination should dards should not be us als. They are not a me (TWA) has been estal e exposure value at th	be kept to a sed as fine o easure of rel plished for in e TWA is the	as low a level dividing lines ative toxicity. ron salts, solu e average air	as is worka between sa uble (as Fe borne cond	pational health able. These afe and dangerous) (Safe Work centration of a
ppropriate ngineering controls tespiratory rotection	Maintain the concentratio of local exhaust ventilatio Where ventilation is not a or mists. Respiratory prot selected in accordance w Devices. Filter capacity a planned entry into unknow respiratory protection is re fit testing, training, mainte	n, capturing substanc dequate, respiratory p ection should comply ith AS 1715 - Selectio nd respirator type dep wn concentrations a p equired, institute a cor	es at the sou protection m with AS 171 n, Use and ends on exp ositive press nplete respi	urce, or other ay be require 6 - Respirato Maintenance posure levels sure, full-face	r methods. ed. Avoid br ory Protectiv of Respira . In event of piece SCB	reathing dust, vapou ve Devices and be tory Protective of emergency or A should be used. I
ye Protection	The use of a face shield, Must comply with Australi Wear gloves of imperviou Selection, use and mainte circumstances. This can i appropriate risk assessm gloves outer surface. Disp	an Standards AS 133 is material conforming enance. Final choice nclude methods of ha ents. Avoid skin conta	7 and be sel to AS/NZS of appropria ndling, and act when rer	lected and us 2161: Occup te glove type engineering moving glove	ed in acco ational pro will vary ac controls as	rdance with AS 133 tective gloves - ccording to individu determined by
Personal Protective Equipment	Personal protective equip when all other reasonably Guidance in selecting per Zealand or other approve	ment should not solel practicable control m sonal protective equip	y be relied ι easures do	pon to contro not eliminate	or sufficie	ntly minimise risk.
ootwear	Safety boots in industrial Occupational protective for	situations is advisory,			omply with A	AS 2210,
ody Protection	Clean clothing or protective in against chemicals should Recommendation: Rubbe	ve clothing should be comply with AS 3765	worn, prefer	ably with an		
lygiene Measures	Always wash hands befor protective equipment befor	e smoking, eating or i		let. Wash coi	ntaminated	clothing and other
	hemical properties					
orm	Solid					

Form	Solid
Appearance	Black-brown powder.
Odour	Slightly pungent.
Decomposition Temperature	>300 °C
Melting Point	306 °C (partly decomposes)
Boiling Point	319 °C



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Infosafe No™ 1CH3B Issue Date : September 2020 **RE-ISSUED by CHEMSUPP** Product Name : FERRIC CHLORIDE Anhydrous Classified as hazardous Solubility in Water Very soluble (920 g/L @ 20 °C). Solubility in Organic Soluble in alcohol, glycerol, methanol, acetone and ether. Slightly soluble in carbon disulfide. Practically insoluble in ethyl acetate. Solvents **Specific Gravity** 2.9 @ 25 °C 1 (200 g/l, H2O, 20 °C) pН 1 hPa (20 °C) Vapour Pressure Vapour Density 5.61 g/l (Air=1) Partition Coefficient: log P(o/w): -4 (24 °C) n-octanol/water Flammability Non combustible material. 162.21 **Molecular Weight Other Information** Sublimation point: >120 °C 10. Stability and reactivity

Chemical StabilityStable. Very hygroscopic. Readily absorbs water in air to form the hexahydrate.Incompatible
MaterialsOxidizing agents, epichlorohydrin, alkali metals (risk of explosion!), copper, light metals, and water.Materials
Hazardous
DecompositionLiberates toxic and corrosive fumes of Hydrogen chloride gas, hydrochloric acid and iron oxides.Products
Possibility of
hazardous reactionsReacts with water to form toxic and corrosive hydrogen chloride gas. Risk of explosion when in contact
with alkali metals.Hazardous
PolymerizationWill not occur.

11. Toxicological Information

LD50 (rat):450 mg/kg.
Harmful if swallowed. May cause severe irritation of the mouth and throat, nausea and vomiting. After swallowing: irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
Inhalation of dust may result in respiratory irritation, coughing and dyspnoea.
Severely irritating to skin. Prolonged contact may cause burns.
Causes burns and irritation. Risk of serious damage to eyes.
Not classified based on available information.
Inhalation may result in spasm, inflammation, and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Overdose of iron compounds may have a corrosive effect on the gastrointestinal mucosa and be followed by necrosis, perforation, and stricture formation. Several hours may elapse before symptoms that can include epigastric pain, diarrhoea, vomiting, nausea, and hematemesis occur. After apparent recovery, a person may experience metabolic acidosis, convulsions, and coma hours or days later. Further complications may develop leading to acute liver necrosis that can result in death due to hepatic coma.

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Infosafe No™	1CH3B Issue Date : September 2020 RE-ISSUED by CH	EMSUPF
Product Name :	FERRIC CHLORIDE Anhydrous	
	Classified as hazardous	
Mutagenicity	The following applies to soluble iron compounds: nausea and vomiting after swallowing. The of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys. No evidence of mutagenic properties.	absorptior
12. Ecological in		
Persistence and	Methods for the determination of biodegradability are not applicable to inorganic substances	
degradability Bioaccumulative Potential Environmental Protection	Behaviour in environmental compartments: log $P(o/w)$: -4 (24 °C). No bioaccumulation is to be expected (log $P(o/w)<1$). Do not allow to enter waters, waste water, or soil!	
13. Disposal con	onsiderations	
Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste disposed of according to relevant local, state and federal government regulations.	and
14. Transport inf	nformation	
Transport Information	Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the for Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 7; and are incompatible with food and food packagin	Class 8
	quantity.	g in any
U.N. Number	quantity. 1773	g in any
UN proper shipping	quantity. 1773	g in any
UN proper shipping name Transport hazard	quantity. 1773	g in any
UN proper shipping name	quantity. 1773 ng FERRIC CHLORIDE, ANHYDROUS	g in any
UN proper shipping name Transport hazard class(es)	quantity. 1773 ng FERRIC CHLORIDE, ANHYDROUS 8 2X	g in any
UN proper shipping name Transport hazard class(es) Hazchem Code	quantity. 1773 ng FERRIC CHLORIDE, ANHYDROUS 8 2X	g in any
UN proper shipping name Transport hazard class(es) Hazchem Code Packaging Method	quantity. 1773 ng FERRIC CHLORIDE, ANHYDROUS 8 2X d 3.8.8	g in any

15. Regulatory inform	nation
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15. negulatory il	
Regulatory	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals
Information	Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information

'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road
and Rail 7th. Ed.'.
Safe Work Australia, 'National Code of Practice fot 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'.
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Infosafe No™ 1CH3B Issue Date : September 2020

RE-ISSUED by CHEMSUPP

Product Name : FERRIC CHLORIDE Anhydrous

Classified as hazardous

Empirical Formula & FeCl3 **Structural Formula**

...End Of MSDS ...

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