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chem-supply

Infosafe No™

Issue Date : June 2014

RE-ISSUED by CHEMSUPP

Product Name : NINHYDRIN

1CHI0

Classified	as	hazar	dous
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	Classified as hazardous		
1. Identification			
GHS Product	NINHYDRIN		
Identifier			
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN		
Addie35	SA 5013 Australia		
Telephone/Fax	Tel: (08) 8440-2000		
Number	Fax: (08) 8440-2001		
Recommended use	Chemical intermediate; reagent for determination of amines, peptines, amino acids, amino sugars and		
of the chemical and	ascorbic acid and laboratory reagent.		
restrictions on use			
Other Names	Name Product Code		
	NINHYDRIN LR NL021		
	NINHYDRIN AR NA021		
	2,2-Dihydroxy-1,3-indanedione, 1,2,3-Indanetrione hydrate,		
	1,2,3-Triketohydrindene monohydrate,		
Other Information	2,2-Dihydroxyhydrindene-1,3-dione EMERGENCY CONTACT NUMBER: +61 08 8440 2000		
	Business hours: 8:30am to 5:00pm, Monday to Friday.		
	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	Eye Damage/Irritation: Category 2A		
of the	Acute Toxicity - Oral: Category 4		
substance/mixture	Skin Corrosion/Irritation: Category 2		
	Specific Target Organ Toxicity - Single Exposure Category 3		
Signal Word (s)	WARNING		
Hazard Statement	H302 Harmful if swallowed.		
(s)	H315 Causes skin irritation.		
	H319 Causes serious eye irritation.		
Pictogram (s)	H335 May cause respiratory irritation. Exclamation mark		
Pictogram (S)	Exclamation mark		
Procentionary	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.		
Precautionary statement –	P264 Wash thoroughly after handling.		
Prevention	P270 Do not eat, drink or smoke when using this product.		
	P280 Wear protective gloves/protective clothing/eye protection/face protection.		
Precautionary	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
statement –	P330 Rinse mouth.		
Response	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for		
	breathing. P305+P351+P338 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses		
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
	P337+P313 If eye irritation persists: Get medical advice/attention.		
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.		



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P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.Precautionary statement – StorageP403+P233 Store in a well-ventilated place. Keep container tightly closed.P405 Store locked up.					
3. Composition/in	nformation on ingredient	ts			
Chemical	Solid				
Characterization					
Ingredients	Name	<u>CAS</u>	<u>Proportion</u>	Hazard Symbol	<u>Risk Phrase</u>
	Ninhydrin	485-47-2	100 %	Xn, Xi	R22, R36/37/38
4. First-aid meas	ures				
Inhalation	Remove victim to fresh air. If breathing has stopped, apply artificial respiration. If symptoms persist,				ptoms persist,
Ingestion	obtain medical attention. Wash out mouth with water and obtain medical attention. Never give anything by mouth to an				
Skin	unconscious person. Seek medical advice. Remove contaminated clothing and wash affected skin with soap and water. Seek medical advice if effects persist.			dical advice if	
Eye contact	Immediately irrigate with copio Seek medical attention.			minutes. Eyelids to b	e held open.
First Aid Facilities	Maintain eyewash fountain and	d safety shower in	n work area.		
Advice to Doctor	Treat symptomatically.				
Other Information	For advice, contact a Poisons 766) or a doctor at once.	Information Cent	re (Phone eg Aust	ralia 13 1126; New Z	ealand 0800 764
5. Fire-fighting m	neasures				
Hazards from	Oxides of carbon.				
Combustion					
Products					
Specific Methods	Small fire: Use dry chemical, CO2, water spray or foam.				
	Large fire: Use water spray, fog or foam. 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.				
Specific hazards	May burn but do not ignite read				pollute waterways.
arising from the	Fire or heat may produce irritation	ting, poisonous a	ind/or corrosive ga	ISES.	
chemical	Moor SCPA and structural firstighter's uniform				
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform. e				
6. Accidental rele	ease measures				
Personal	Avoid inhalation and ingestion.	. Avoid contact w	ith skin, eves and	clothing.	
Precautions	5			0	
Personal Protection	Wear protective clothing speci	fied for normal of	perations (see Sec	tion 8)	
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.				
Clean-up Methods -	Seek expert advice on handling and disposal.				
Large Spillages					
Environmental Precautions	Use appropriate containment to	o avoid environm	iental contaminatio	on.	
7. Handling and	storage				
	Avoid generation or accumulat	ion of dusts Ave	oid prolonged or re	peated contact with	skin and eves
Handling	Use in well ventilated areas aw suitable respiratory equipment	vay from all ignition	on sources. In cas	se of insufficient vent	ilation, wear
Conditions for safe	Store away from sources of heat or ignition. Store away from oxidizing agents. Store in a cool, dry				
storage, including	place. Keep containers securely sealed and protected against physical damage.				
any					
incompatabilities					

8. Exposure controls/personal protection



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Product Name :	NINHYDRI	N		
		Classified as hazardous		
Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts or mists when limits have not otherwise been established.			
Appropriate		situations maintain the concentrations values belo		
engineering contro	Is process mod methods.	dification, use of local exhaust ventilation, capturin	ng substances at the source, or other	
Respiratory Protection Eye Protection Hand Protection	Where venti or mists. Re selected in a Devices. Fill planned ent respiratory p fit testing, tra The use of a Must comply	lation is not adequate, respiratory protection may spiratory protection should comply with AS 1716 - accordance with AS 1715 - Selection, Use and Ma ter capacity and respirator type depends on expos ry into unknown concentrations a positive pressure protection is required, institute a complete respirato aining, maintenance and inspection. a face shield, chemical goggles or safety glasses of y with Australian Standards AS 1337 and be select tion should comply with AS 2161, Occupational pr	Respiratory Protective Devices and be intenance of Respiratory Protective sure levels. In event of emergency or e, full-facepiece SCBA should be used. If ory protection program including selection, with side shield protection as appropriate. ted and used in accordance with AS 1336.	
Footwear Body Protection	Recommend Safety boots Occupationa	dation: rubber or plastic gloves. s in industrial situations is advisory, foot protection al protective footwear - Guide to selection, care an ng or protective clothing should be worn, preferab	nd use.	
Hygiene Measures	against cher Always wasl	micals should comply with AS 3765 Clothing for Pr h hands before smoking, eating or using the toilet. quipment before storing or re-using.	rotection Against Hazardous Chemicals.	

9. Physical and chemical properties

Form	Solid
Appearance	White to brownish-white or faintly yellow crystals or powder. May discolour on exposure to light.
Odour	Characteristic.
Melting Point	250 - 258 °C (decomposes)
Solubility in Water	Slightly soluble (20 g/L @ 20 °C)
Solubility in Organic Solvents	Soluble in alcohol. Slightly soluble in ether and chloroform.
рН	4.6 -5.0 (10 g/l, H2O, 20 °C)
Vapour Density (Air=1)	6.16 (air=1)
Volatile Component	0% (21 °C)
Flammability	Combustible.
Molecular Weight	178.14
Other Information	When heated above 150 °C becomes purple and melts with decomposition at approximately 250 °C.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.		
Conditions to Avoid	Dust generation. High temperatures. Light. Incompatibles.		
Incompatible	Strong oxidizing agents, strong acids.		
Materials Hazardous	Oxides of carbon.		
Decomposition			
Products			
Hazardous Polymerization	Will not occur.		
11. Toxicological Information			

Ir

Ingestion	Harmful if swallowed. Causes irritation to the gastrointestinal tract. Symptoms may be nausea, vomiting
	and diarrhea.
Inhalation	May be harmful if inhaled. Irritating to respiratory system. May cause coughing, shortness of breath.



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Skin	Irritating to skir	n. May be harmful if absorbed through skin. Dis	colours the skin (rubefacient) May cause
SKIII	skin rash.		colours the skin (ruberacient). May cause
Eye	Causes irritatio	n to eyes, redness and pain. May cause burns.	
Carcinogenicity	No evidence of	carcinogenic properties.	
Chronic Effects	Repeated skin	or eye contact with solid or solution may cause	e burns.
Mutagenicity	No evidence of	mutagenic properties.	
12. Ecological i			
Ecotoxicity	No ecological o	lata available for this product.	
13. Disposal co	nsiderations		
Disposal	Whatever cann	ot be saved for recovery or recycling should be	e disposed of according to relevant local,
Considerations	state and feder	al government regulations.	
14. Transport in			
Transport Information	Not classified a Goods by Road	as a Dangerous Good according to the Australia	an Code for the Transport of Dangerous
	-		
15. Regulatory i		ustralian Inventory of Chemical Substances (Al	
Regulatory Information	Listed in the At	Istralian inventory of Chemical Substances (All	63).
Poisons Schedule	Not Scheduled		
Hazard Category	Harmful,Irritant		
16. Other Inforn			
Literature		e Uniform Scheduling of Medicines and Poisor	ns No. 4', Commonwealth of Australia,
References	June 2013. Lewis. Richard	J. Sr. 'Hawley's Condensed Chemical Dictiona	ary 13th, Ed.', Rev., John Wiley and Sons.
	Inc., NY, 1997.		
	National Road and Rail 7th. E	Transport Commission, 'Australian Code for the	e Transport of Dangerous Goods by Road
		azardous Workplace Chemicals, Code of Procti	ice' Safe Work Australia.
	Standards Aus	tralia 'AS 1940-2004 The Storage and Handling tralia, 'SAA/SNZ HB 76:2010 Dangerous Goods tralia/Standards New Zealand, 2010.	
	Worksafe Aust	ralia, 'Approved Criteria for Classifying Hazardo	ous Substances [NOHSC:1008(2004)]'.
	Worksafe Aust	ralia, 'Hazardous Substances Information Syste	em, 2005'.
	(2011)'.	ralia, 'National Code of Practice for the Labellin	ig of workplace Hazardous Substances
	Worksafe Aust	ralia, 'National Exposure Standards for Atmosp IOHSC:1003(1995)]'.	heric Contaminants in the Occupational
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Empirical Formula	& C9 H6 O4		
Structural Formula	End Of MOD		

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