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Infosafe No™ 3CH8R

Issue Date : January 2022 RE-ISSUED by CHEMSUPP

Product Name VITAMIN B2

Not classified as hazardous

Section 1 - Identif	ification							
Product Identifier	VITAMIN B2							
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)							
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia							
Telephone/Fax Number	Tel: (08) 8440-2000	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	${f f}$ Food additive, Ingredient for pharmaceutical products.	Food additive, Ingredient for pharmaceutical products.						
Other Names	Name Product Code							
	VTTAMIN B2 VP008							
	7,8-dimethyl-10- (D-ribo-2,3,4,5-tetrahydroxypentyl) isoalloxazine Riboflavin							
Other Information								
	before use or application intended purpose. Preliminary testing of the before use or application is recommended. Any reliance or purported r upon ChemSupply Australia Pty Ltd with respect to any skill or judgem advice in relation to the suitability of this product of any purpose disclaimed. Except to the extent prohibited at law, any condition imp any statute as to the merchantable quality of this product or fitness purpose is hereby excluded. This product is not sold by description. provisions of Part V, Division 2 of the Trade Practices Act apply, th liability of ChemSupply Australia Pty Ltd is limited to the replaceme supply of equivalent goods.	e product eliance ent or is lied by for any Where the ent of oods or						
Section 2 - Hazard	rd(s) Identification							
GHS Classification of the Substance/Mixture	Classified as non-Hazardous according to the 7th Edition Globally Harmonised System of classification and labelling of Chemicals (GHS7) including Work, Health and Safety regulations, Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).							
Section 3 - Compo	oosition and Information on Ingredients							
Ingredients	Name CAS Proportion							
	Riboflavin 83-88-5 98-100 %							
Section 4 - First A	Aid Measures							
Inhalation	Move to fresh air in case of accidental inhalation of dust or fumes f	rom over						
	heating or combustion. If symptoms persist, seek medical attention.							
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do not g or alcoholic beverages. Never give anything by mouth to an unconsciou	Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.						
Skin	Take of contaminated clothing and shoes immediately. Wash off with so plenty of water.	ap and						
Eye	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.							
First Aid Facilities	irst Aid Facilities Maintain eyewash fountain and safety shower in work area.							

Advice to Doctor Treat symptomatically.

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

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	New Zealand 0800 764 766) or a doctor.					
Section 5 - Firefig	hting Measures					
Suitable Extinguishing Media	Suitable extinguishing media - foam and water.					
Specific Hazards Arising from the Chemical	Consider dust explosion hazard.					
Decomposition Temperature	280 °C (melting point)					
Precautions in connection with Fire	In the event of fire, wear self-contained breathing apparatus.					
Other Information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.					
Section 6 - Accide	ntal Release Measures					
Spills & Disposal	Sween up and shovel					

Sweep up and shovel. Spills & Disposal

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Section 7 - Handling and Storage

Precautions for Safe Handling	Avoid generation or accumulation of dusts. Use in well ventilated areas away from all ignition sources. Take precautionary measures against static discharges.				
Conditions for safe storage, including any incompatibilities	Keep container tightly closed and in a cool, well-ventilated place Keep away from direct sunlight				
Storage Temperatures	Store at room temperature (15 to 25 $^\circ \text{C}$ recommended).				
Other Information	No decomposition if stored and applied as directed.				

Section 8 - Exposure Controls and Personal Protection

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 when limits have not otherwise been established.					
Engineering Controls	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	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 respirator type depends on exposure levels.					
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.					
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.					



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Section 9 - Physica	al and Chemical Properties				
Form	Solid				
Appearance	Yellow to yellow-orange free flowing powder.				
Odour	Odourless.				
Decomposition Temperature	280 °C (melting point)				
Solubility in Water	ility in Water 0.16 g/l (@ 37 °C); 0,085 g/l (@ 25 °C)				
Solubility in Organic Solvents	<pre>ic Soluble in the following solvents: Hydrochloric acid 0.1 N: 0.18 g/l (37 °C); Ethanol: 0.045 g/l (27.5 °C) Insoluble in Ether and Acetone.</pre>				
рН	ph 6 (saturated aqueous solution)				
Vapour Pressure	< 0,001 hPa (at 25 °C; calculated)				
Partition Coefficient: n-octanol/water (log value)	Log P(o/w): -1.46				
Density	ca 380 kg/cm3 (bulk density)				
Flammability	Non combustible material.				
Molecular Weight	376.37 g/mol				
Other Information	<pre>Combustability index for deposited dust: 3 (23 °C); : 3 (100 °C). Dust explosion class: St(H)1 (Milled sample, Median value of the tested sample 0,032 mm, Loss on drying 1,5 %; The value was determined in the modified Hartmann tube.). Minimum ignition energy: >= 450 °C (Median value of the tested sample 0,082 mm) determined in the BAM oven >= 430 °C (Median value of the tested sample 0,096 mm) determined in the BAM oven. Powder volume resistivity : ca. 1E+13 Ohmm (, Median value of the tested sample 0,082 mm, Loss on drying 1,5 %) The material can accumulate static charge and can therefore cause electrical ignition. Minimum ignition energy : 10 - 30 mJ (Milled sample, Median value of the tested sample 0,032 mm, Loss on drying 1,5 %, EN 13821) The Minimum ignition energy (MIE) of a dust/air mix depends on the particle size the water content and the temperature of the dust. The finer and the dryer the dust the lower the MIE. General remark: The indicated dust explosion characteristics are only valid for this product and are sensitive to the sample's parameters. Dissociation constant: pKa 10.2</pre>				

Section 10 - Stability and Reactivity

Chemical Stability	Hygroscopic Stable under normal use conditons.					
Possibility of Hazardous Reactions	Dust may form explosive mixture in air.					
Conditions to Avoid	Heat, direct sunlight, open flames or other sources of ignition. Moisture.					
Incompatible Materials	Strong acids, strong bases and strong oxidising agents.					
Hazardous Decomposition	Nitrogen oxides.					
Products Hazardous Polymerization	Will not occur.					



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Product Name	VITAMIN B2					
	No	classif	ied as haz	ardous		
Other Information	Thermal decomposition: Decomposes on heating. Potential for exothermic hazard. Dust may form explosive mixture in air.					
Section 11 - Toxico	ological Information					
Acute Toxicity - Oral	LD50 (mouse): > 2 LD50 (rat): > 2 00 mg/kg/day Sub-chro)00 mg/kg) mg/kg; R nic toxici	epeated dos ty study (9	e toxicity : 0-day).	: NOAEL (Oral, rat) : 200	
Acute Toxicity - Dermal	LD50 (rabbit): > 5	000 mg/kg	ſ			
Acute Toxicity - Inhalation	LC50 (rat, 4 h): >	5,4 mg/l				
Ingestion	May cause irritation.					
Inhalation	May cause irritation.					
Skin	Prolonged skin contact may cause skin irritation.					
Skin Corrosion/Irritation	No skin irritation	(rabbit).				
Eye	Dust contact with	the eyes c	an lead to	mechanical i	irritation.	
Serious Eye Damage/Irritation	No eye irritation	(rabbit).				
Skin Sensitisation	Positive photoalle	rgenic ski	n reaction	(guinea pig)	1	
Carcinogenicity	No evidence of car	cinogenic	properties.			
Mutagenicity	No evidence of mut	agenic pro	perties.			
Early onset symptoms related to exposure	Therapeutic dosage	: 5 - 100	mg/day. Rec	ommended Dai	ly Allowance: 1.6 mg	

Section 12 - Ecological Information

Persistence and	Readily biodegradable.
Degradability	100%/28d
Environmental Fate	No information available.
Bioaccumulative Potential Acute Toxicity - Fish	<pre>log P(o/w): -1.46 LC50 [Oncorhynchus mykiss (rainbow trout)]: > 500 mg/l/96h</pre>
Acute Toxicity -	EC50 [Daphnia magna (Water flea)]: 47.4 mg/1/48h
Daphnia	EC0 [Daphnia magna (Water flea)]: 43.8 mg/1/48h
Acute Toxicity -	EbC50 [Desmodesmus subspicatus (green algae)]: 9.8 mg/l/72h
Algae	ErC50 [Desmodesmus subspicatus (green algae)]: 21 mg/l/72h
Acute Toxicity - Bacteria	ICO (activated sludge): > 100 mg/l/28d. No inhibition was observed under the biodegradation test conditions.

Section 13 - Disposal Considerations

Disposal	Whatever cannot be saved for	recovery or recycling should be disposed of	
Considerations	according to relevant local,	state and federal government regulations.	

Section 14 - Transport Information

Section 15	Degulatory Information
Information	Transport of Dangerous Goods by Road and Rail.
Transport	Not classified as a Dangerous Good according to the Australian Code for the

Section 15 - Regulatory Information

Poisons Schedule Not Scheduled

Section 16 - Any Other Relevant Information



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Literature References	'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 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'.				
Contact Person/Point	Paul McCarthy All informatic representative since data, sa and the condit make no warran or accuracy to accepts no res may be obtained for reliance or representative	Ph. (08) 8440 n provided in s is compiled fety standards ions of handli ty either exp the information ponsibility wh d by customers n information s.	2000 DIS this data s from the be and govern ing and use, ressed or im on containe hatsoever fo from using provided in	CLAIMER STAT heet or by o st knowledge ment regulat or misuse, plied, with d herein. Ch r its accura the data an this data s	EMENT: ur technical available to us. However, ions are subject to change are beyond our control, we respect to the completeness emSupply Australia Pty Ltd cy or for any results that d disclaims all liability heet or by our technical
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