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Infosafe No™ 1CH3I

Issue Date : January 2022 RE-ISSUED by CHEMSUPP

Product Name **ASCORBIC ACID**

Not classified as hazardous

Product Identifier ASCORBIC ACID Company Name CHEMSUPPLY AUSTRALIA PTY LTD (AEN 19 008 264 211) Address 38 - 50 Bedford Street CILLMAN SA 5013 Australia Tel: (08) 8440-2000 Number Emergency Phone CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International) Number Emergency Phone CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International) Number Emergency Phone CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International) Number Emergency Phone CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International) Number Email Address www.chemsupply.com.au Recommended use of functional and the chemical and reducing agent in analytical chemistry and laboratory reagent. Product Code Other Names Ame Peroduct Code ASCORBIC ACID Internation and yit and preservative in meats and other for any use or purpores. The user must ascertain the suitability of the produc virtum in a seconal propers. AnO22 APO22 Other Information ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purporse. The user must ascertain the suitability of the produc before use or application intended purpose. Preliminary testing of the produc before use or application intended purpose. The limitent the suitability of the produc before	Section 1 - Identifi	ication			
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Ingredients Name CAS Proportion	Section 3 - Compo	sition and Information	on Ingredients		
L-Ascorbic acid. 50-81-7 100 %	-			Proportion	
		L-Ascorbic acid.	50-81-7	100 %	

Inhalation	Remove victim to fresh air. Seek medical advice if effects persist. If breathing has stopped, apply artificial respiration.
Ingestion	Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Seek medical attention in severe cases, or if large amounts ingested. NEVER give anything by mouth if victim is rapidly losing consciousness, is unconscious or is convulsing. Do not induce vomiting.
Skin	Wash with plenty of soap and water. If irritation occurs seek medical advice. Remove contaminated clothing Wash clothing before reuse. Seek medical attention.
Eye	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist. Remove contact lenses.



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Infosafe No™	
Product Name	ASCORBIC ACID
	Not classified as hazardous
First Aid Facilities	Maintain eyewash fountain and drench facilities in work area.
Advice to Doctor Other Information	Treat symptomatically. Adverse effects on colour vision. Ascorbic acid should be given with care to patients with hyperoxaluria. For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126;
	New Zealand 0800 764 766) or a doctor.
Section 5 - Firefig	
Hazards from Combustion Products	Acrid smoke and irritating fumes, carbon monoxide and carbon dioxide.
Specific Methods Specific Hazards	<pre>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. May burn but do not ignite readily. Runoff may pollute waterways. Fire may</pre>
Arising from the Chemical	produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
Decomposition Temperature	ca. 183 °C; 190 – 192 °C.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.
Section 6 - Accide	ntal Release Measures
Spills & Disposal Personal Precautions	Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL. Do not breathe dust. Do not breathe fumes, vapour, gas. Avoid inhalation, contact with skin, eyes and clothing.
Section 7 - Handli	
Precautions for Safe Handling	Avoid ingestion and inhalation of vapours, or dusts. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Keep container tightly closed. Use with adequate ventilation. If ingested, seek medical advice immediately and show the container or the label. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Light sensitive. Protect against physical damage and light. Keep away from heat and all sources of ignition. Ground all equipment containing material. Keep away from incompatibles such as oxidizing agents and strong bases. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Conditions for safe storage, including any incompatibilities	Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances. Separated from strong oxidants, strong bases. Solutions of ascorbic acid are rapidly oxidized in air and in alkaline media; the drug should be protected from air and light. Store in light-resistant containers. Store away from direct sunlight. Store protected from moisture. Store under an inert atmosphere. Protect against physical damage. Isolate from any source of heat or ignition. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Corrosiveness	Attacks aluminium, copper, copper alloys, iron and zinc.
Storage Temperatures Unsuitable Materials	Store at room temperature (15 to 25 °C recommended). Aluminium, copper, copper alloys, iron and zinc.
~	ura Controls and Parsonal Protoction

Section 8 - Exposure Controls and Personal Protection



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Infosafe No™	10031		• Tanuanu 000	22	DE ICCUED by CUENCUDD
			:January 202	<u> </u>	RE-ISSUED by CHEMSUPP
Product Name	ASCORBIC ACI	D			
		Not classif	ied as hazard	ous	
Other Exposure Information	has not been e	stablished by	Safe Work Aust	ralia fo	8 hour day, and 5 day week or this product. There is a re not otherwise been
Engineering Controls	This may be ac	hieved by proc	ess modificatio	on, use o	ns values below the TWA. of local exhaust o other methods.
Respiratory Protection	Avoid breathin with AS 1716 - with AS 1715 - Devices. Filte event of emerg pressure, full required, inst	g dust, vapour Respiratory F Selection, Us r capacity and ency or planne -facepiece SCE itute a comple	rs or mists. Res Protective Devic the and Maintenar I respirator typ ad entry into ur DA should be use	piratory es and b ice of Re be depend known co ed. If re protecti	ection may be required. y protection should comply be selected in accordance espiratory Protective ds on exposure levels. In encentrations a positive espiratory protection is on program including enspection.
Eye and Face Protection	protection as	appropriate.		h Austra	y glasses with side shield llian Standards AS 1337 and
Hand Protection					ional protective gloves - Plastic or rubber gloves.
Body Protection	apron. Clothin	g for protecti	2	icals sh	n, preferably with an hould comply with AS 3765 s.
Hygiene Measures					the toilet. Wash It before storing or

re-using.

Section 9 - Physical and Chemical Properties

Form	Solid
Appearance	White to a very pale yellow crystalline solid, or colourless crystals.
Odour	Odourless.
Melting Point	ca. 183 °C; 190 - 192 °C (decomposes).
Decomposition Temperature	ca. 183 °C; 190 - 192 °C.
Solubility in Water	Soluble (1g/3mL at 20 °C).
Solubility in Organic Solvents	Slightly soluble in alcohol, glycerol and propylene glycol. Insoluble in ether, chloroform, benzene, petroleum ether, oils and fats.
Specific Gravity	1.65 - 1.70
Solubility in Fat	Insoluble.
рН	2.1 - 2.6 (5% aqueous solution)
Vapour Pressure	7.9179 Pa @ 192 °C
Volatile Component	0 %vol @ 21 °C
Partition Coefficient: n-octanol/water (log value)	log P (o/w): -2.15
Flash Point	99 °C
Flammability	Combustible.
Auto-ignition Temperature	640 °C
Flammable Limits - Lower	10% by Volume (g.cu. ft.)
Flammable Limits - Upper	20% by Volume (g.cu. ft.)



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Infosafe No™	1CH3I Issue Date : January 2022 RE-ISSUED by CHEMSUPP
Product Name	ASCORBIC ACID
	Not classified as hazardous
Explosion Properties	May form an explosive organic dust cloud with air.
Molecular Weight	176.13
Oxidising Properties	The substance is a strong reducing agent and reacts with oxidants.
Other Information	Taste: Pleasant, sharp acidic taste.
Section 10 - Stabil	lity and Reactivity
Chemical Stability	Stable at room temperature in closed containers under normal storage and handling conditions. Stable to air when dry; aqueous solutions are rapidly oxidized by air.
Possibility of	Reactive with oxidizing agents. Air and light sensitive.
Hazardous Reactions	Aqueous solutions are rapidly oxidized by air, accelerated by alkalies, iron,
Conditions to Avoid	copper. Heat, ignition sources, light, air, moisture, dust generation and incompatible materials.
Incompatible Materials	Strong oxidizing agents, alkalies, aluminium, iron, copper, copper alloys, zinc, metal ions, water, acids, sodium nitrate, alkali hydroxides, sodium salicylate, sodium nitrite, theobromine and methenamine.
Hazardous Decomposition Products	Carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.
Section 11 - Toxico	ological Information
Acute Toxicity - Oral	LD50 (rat): 11900 mg/kg; LD50 (mouse): 3367 mg/kg.
Ingestion	Ingestion of small amounts during normal industrial handling is a low hazard. Ingestion of large amounts may cause gastrointestinal irritation, gastrointestinal disturbances (nausea, vomiting and diarrhoea), hypermotility, acidification of the urine which may cause precipitation of cystine and oxalate stones in the urinary tract and may cause renal failure coordination, somnolence, eyes (lacrimation), blood (anaemia), a disruption of psychological functioning resulting in decreased reaction times and psychomotor coordination. Increases iron absorption and, thus, large doses may be dangerous in persons with haemochromatosis, thalassaemia, or sideroblastic anaemia. Persons with erythrocyte/G6PD defifiency may develop mild haemolysis. High doses taken during pregnancy may cause scurvy in infants when born.
Inhalation	Irritates the respiratory tract. May cause coughing and a sore throat.
Skin	May cause mild to moderate irritation and redness. When in solution forms a strong acid which may be irritating to skin.
Skin Corrosion/Irritation	Skin irritation test (rabbit): No irritation.
Eye	May cause mild to moderate irritation, redness and pain. When in solution forms a strong acid which may be irritating to eyes.
Serious Eye Damage/Irritation Carcinogenicity	Eye irritation test (rabbit): Slight irritation. Not listed in the IARC Monographs.
Chronic Effects	Chronic ingestion of ascorbic acid can change the pH of the saliva so that
Chronic Elects	calcium is lost from tooth enamel leading to dental enamel erosion. Prolonged or repeated ingestion may affect the blood/bone marrow and metabolism. Chronic ingestion of large doses may cause gastrointestinal disturbances including nausea and diarrhoea, urinary effects involving urine acidification, oxalate and uric crystallization in the bladder and kidney, and decreased reaction times and psychomotor coordination.

Section 12 - Ecological Information



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Product Name . Ecological Information	1CH3I Issue Date : January 2022 RE-ISSUED by CHEMSUPP ASCORBIC ACID Not classified as hazardous
Information	Not classified as hazardous
Information	
	No ecological problems are to be expected when the product is handled and used with due care and attention.
Ecotoxicity	When introduced properly, no impairments in the function of waste-water-treatment plants are to be expected.
Persistence and Degradability	Biologic degradation: Readily biodegradable. BOD 48 % of ThOD /5 d (closed bottle test); BOD 65 % of ThOD /28 d (closed bottle test).
Mobility	Distribution: log P(oct) -2.15.
Bioaccumulative Potential	No bioaccumulation is to be expected (log P(o/w <1).
Acute Toxicity - Fish	Onchorhynchus mykiss LC50: 1020 mg/l /96 h acid; L.idus LC50: 33000 mg/l /48 h.
Section 13 - Dispos	sal Considerations
Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.
Section 14 - Trans	port Information
Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Section 15 - Regula	atory Information
Poisons Schedule	Not Scheduled
Section 16 - Any O	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 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 Empirical Formula	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. C6-H8-O6
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