## Safety Data Sheet

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Infosafe No™

Issue Date : January 2017

RE-ISSUED by CHEMSUPP

Product Name : ASCORBIC ACID

1CH3I

Not classified as hazardous					
1. Identification					
GHS Product Identifier	ASCORBIC ACID				
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)				
Address	38 - 50 Bedford Street GILL	MAN			
Telephone/Fax Number Recommended use of the chemical and	Tel: (08) 8440-2000 Fax: (08) 8440-2001 Nutrition, colour fixing, flavouring and preservative in meats and other foods, oxidant in bread doughs, abscission of citrus fruit in harvesting, reducing agent in analytical chemistry and laboratory reagent.				
Other Names	Name			Product Co	ode
Other Information	ASCORBIC ACID AR ASCORBIC ACID LR ASCORBIC ACID BP L-Ascorbic acid Vitamin C EMERGENCY CONTACT N	IIIMBER· +61 (	18 8440 2000	AA022 AL022 AP022	
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.				
	Chem-Supply Pty Ltd does must ascertain the suitabilit testing of the product before upon Chem-Supply Pty Ltd this product of any purpose any statute as to the mercha This product is not sold by of Act apply, the liability of Che or payment of the cost of re	not warrant that th y of the product be e use or applicatio with respect to an is disclaimed. Exc antable quality of t description. Where em-Supply Pty Ltd placing the goods	is product is suitable of ore use or application is recommended. y skill or judgement cept to the extent pro- his product or fitnes the provisions of P is limited to the rep or acquiring equiva	e for any use or purp ion intended purpose Any reliance or purpo or advice in relation to obibited at law, any c is for any purpose is art V, Division 2 of the lacement of supply o lent goods.	ose. The user e. Preliminary orted reliance to the suitability of ondition implied by hereby excluded. e Trade Practices f equivalent goods
2. Hazard Identifi	cation				
GHS classification of the substance/mixture	Not classified as hazardous [NOHSC:1008(2004] 3rd Ec Not classified as dangerous	according to the A dition, Safe Work A goods according	Approved Criteria fo Australia. to the Australian Da	r Classifying Hazardo Ingerous Goods Cod	ous Substances e (ADG).
3. Composition/i	nformation on ingredie	ents			
Chemical	Solid				
Characterization					
Ingredients	<u>Name</u> L-Ascorbic acid.	<u>CAS</u> 50-81-7	Proportion 100 %	Hazard Symbol	Risk Phrase
4. First-aid meas	ures				
Inhalation	Remove victim to fresh air.	Seek medical adv	rice if effects persist	. If breathing has sto	opped, apply
Ingestion	artificial respiration. Rinse mouth thoroughly with severe cases, or if large am consciousness, is unconsci	h water immediate ounts ingested. N ous or is convulsir	ly. Give plenty of w IEVER give anything a. Do not induce v	ater to drink. Seek n g by mouth if victim is omiting.	nedical attention in a rapidly losing
Skin	Wash with plenty of soap ar clothing Wash clothing before	nd water. If irritation or e reuse. Seek m	on occurs seek med nedical attention.	ical advice. Remove	contaminated
Eye contact First Aid Facilities	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist. Remove contact lenses. Maintain eyewash fountain and drench facilities in work area.				
Advice to Doctor	Treat symptomatically.				
Other Information	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.				
5. Fire-fighting m					



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Product Name :	ASCORBIC ACID	
	Not classified as hazardous	
Hazards from	Acrid smoke and irritating fumes, carbon monoxide and carb	oon dioxide.
Combustion Products		
Specific Methods	Small fire: Use dry chemical, CO2, water spray or foam.	
	Large fire: Use water spray, fog or foam.	rea. Cool containers with flooding quantities
	of water until well after the fire is out.	rea. Oool containers with hooding quantities
Specific hazards	May burn but do not ignite readily. Runoff may pollute water	ways. Fire may produce irritating, poisonous
arising from the chemical	and/or conosive runes. Containers may explode when heat	ed.
Decomposition	ca. 183 °C; 190 - 192 °C.	
Temp.	Week CODA and structural finafightania uniform	
connection with Fire	e wear SCBA and structural firefighter's uniform.	
6 Accidental rel		
Spills & Disposal	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. Preven	t entry into waterways, drains, confined
	areas. Prevent dust cloud. Use clean non-sparking tools to c loosely-covered plastic containers for later disposal	collect material and place it into
	SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.	
Personal	Do not breathe dust. Do not breathe fumes, vapour, gas. A	woid inhalation, contact with skin, eyes and
	ciotining.	
7. Handling and s	storage	antast with succe skip, and slothing. Avoid
Handling	prolonged or repeated exposure. Minimize dust generation a	and accumulation. Keep container tightly
	closed. Use with adequate ventilation. If ingested, seek med	lical advice immediately and show the
	container or the label. Wash thoroughly after handling. Rem	ove contaminated clothing and wash before 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	e hazardous when empty since they retain
Conditions for safe	Store in tightly closed containers, in a cool, dry, well-ventilat	ed area away from incompatible substances.
storage, including	Separated from strong oxidants, strong bases. Solutions of	ascorbic acid are rapidly oxidized in air and
any	in alkaline media; the drug should be protected from air and Store away from direct sunlight. Store protected from moist	light. Store in light-resistant containers.
incompatabilities	against physical damage. Isolate from any source of heat or	rignition. Containers of this material may be
	hazardous when empty since they retain product residues (or	dust, solids); observe all warnings and
Corrosiveness	Attacks aluminium, copper, copper alloys, iron and zinc.	
Storage	Store at room temperature (15 to 25 °C recommended).	
Temperatures	AL	
Unsultable Materials	s Aluminium, copper, copper alloys, Iron and zinc.	
8. Exposure cont	trols/personal protection	
Other Exposure	A time weighted average (TWA) concentration for an 8 hour	day, and 5 day week has not been
Information	limits have not otherwise been established.	s a blanket limit of 10 mg/m² for dusts when
Appropriate	In industrial situations maintain the concentrations values be	elow the TWA. This may be achieved by
engineering controls	s process modification, use of local exhaust ventilation, captul methods.	ring substances at the source, or other
Respiratory	Where ventilation is not adequate, respiratory protection ma	y be required. Avoid breathing dust, vapours
Protection	or mists. Respiratory protection should comply with AS 1716	6 - Respiratory Protective Devices and be
	Devices. Filter capacity and respirator type depends on exp	osure levels. In event of emergency or
	planned entry into unknown concentrations a positive press	ure, full-facepiece SCBA should be used. If
	respiratory protection is required, institute a complete respiration	atory protection program including selection,
Eye Protection	The use of a face shield, chemical goggles or safety glasses	s with side shield protection as appropriate.



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Product Name :	ASCORBIC ACID		
		Not classified as hazardous	
Hand Protection	Must comply with Austra Hand protection should maintenance. Recomm	alian Standards AS 1337 and be selecte comply with AS 2161, Occupational pro nendation: Plastic or rubber gloves.	d and used in accordance with AS 1336. tective gloves - Selection, use and
<b>Body Protection</b>	Clean clothing or protect against chemicals should be a set of the	ctive clothing should be worn, preferably Id comply with AS 3765 Clothing for Pro	with an apron. Clothing for protection tection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands bef protective equipment be	fore smoking, eating or using the toilet. Nefore storing or re-using.	Nash contaminated clothing and other
9. Physical and c	hemical properties		
Form	Solid		
Appearance	White to a very pale yel	llow crystalline solid, or colourless crysta	als.
Odour	Odourless.		
Decomposition Temperature	ca. 183 °C; 190 - 192 °(	С.	
Melting Point	ca. 183 °C; 190 - 192 °C	C (decomposes).	
Solubility in Water	Soluble (1g/3mL at 20 °	°C).	
Solubility in Organic Solvents Specific Gravity	Slightly soluble in alcoh petroleum ether, oils an 1 65 - 1 70	ol, glycerol and propylene glycol. Insolu d fats.	ble in ether, chloroform, benzene,
Solubility in Fat	Insoluble		
pH	2.1 - 2.6 (5% aqueous s	solution)	
Vapour Pressure	7.9179 Pa @ 192 °C	,	
Volatile Component	0 %vol @ 21 °C		
Partition Coefficient	log P (o/w): -2.15		
n-octanol/water Flash Point	99 °C		
Flammability	Combustible.		
Auto-Ignition	640 °C		
Temperature Flammable Limits -	10% by Volume (g.cu. f	t.)	
Lower Flammable Limits -	20% by Volume (g.cu. f	t.)	
Explosion Properties	May form an explosive	organic dust cloud with air.	
Molecular Weight	176.13		
Oxidising Properties	The substance is a stro	ng reducing agent and reacts with oxida	ints.
Other Information	Taste: Pleasant, sharp	acidic taste.	
10. Stability and	reactivity		

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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.
Heat, ignition sources, light, air, moisture, dust generation and 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.
Carbon monoxide and carbon dioxide.
Reactive with oxidizing agents.
Air and light sensitive. Aqueous solutions are rapidly oxidized by air, accelerated by alkalies, iron, copper.
Will not occur.

#### **11. Toxicological Information**

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Product Name :	ASCORBIC ACID		
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Acute Toxicity - Oral Ingestion	LD50 (rat): 11900 mg/k LD50 (mouse): 3367 m Ingestion of small amo may cause gastrointes hypermotility, acidificat urinary tract and may o a disruption of psychol	kg; ng/kg. bunts during normal industrial handling is stinal irritation, gastrointestinal disturband tion of the urine which may cause precip cause renal failure coordination, somnole logical functioning resulting in decreased	a low hazard. Ingestion of large amounts ces (nausea, vomiting and diarrhoea), itation of cystine and oxalate stones in the ence, eyes (lacrimation), blood (anaemia), l reaction times and psychomotor
Inhalation	coordination. Increases haemochromatosis, the may develop mild haer born. Irritates the respiratory	s iron absorption and, thus, large doses alassaemia, or sideroblastic anaemia. Po molysis. High doses taken during pregna	may be dangerous in persons with ersons with erythrocyte/G6PD defifiency ancy may cause scurvy in infants when hroat.
Skin	May cause mild to mod	derate irritation and redness. When in so	lution forms a strong acid which may be
Еуе	May cause mild to moo may be irritating to eye	derate irritation, redness and pain. When es.	in solution forms a strong acid which
Carcinogenicity	Not listed in the IARC	Monographs.	
Chronic Effects	Chronic ingestion of as enamel leading to den marrow and metabolish including nausea and o crystallization in the bla	scorbic acid can change the pH of the sa tal enamel erosion. Prolonged or repeate m. Chronic ingestion of large doses may diarrhoea, urinary effects involving urine adder and kidney, and decreased reactic	liva so that calcium is lost from tooth ed ingestion may affect the blood/bone cause gastrointestinal disturbances acidification, oxalate and uric on times and psychomotor coordination.
Serious eye damage/irritation Skin corrosion/irritation	Eye irritation test (rabb Skin irritation test (rabb	bit): Slight irritation. bit): No irritation.	
12. Ecological in	formation		
Ecological Information Ecotoxicity	No ecological problem attention. When introduced prop expected.	s are to be expected when the product is erly, no impairments in the function of wa	s handled and used with due care and aste-water-treatment plants are to be
Persistence and degradability	Biologic degradation: F BOD 48 % of ThOD /5 BOD 65 % of ThOD /20 Distribution: log B(cat)	Readily biodegradable. d (closed bottle test); 8 d (closed bottle test).	
Bioaccumulative	No bioaccumulation is	to be expected (log $P(o/w < 1)$ ).	
Acute Toxicity - Fish	Onchorhynchus mykis Lidus LC50: 33000 mg	s LC50: 1020 mg/l /96 h acid; g/l /48 h.	
13. Disposal con	siderations		
Disposal Considerations	Dispose of according t	o relevant local, state and federal goverr	nment regulations.
14. Transport inf	ormation		
Transport Information	Not classified as a Dar Goods by Road and R	ngerous Good according to the Australian ail.	n Code for the Transport of Dangerous
15. Regulatory in	Iformation		
Poisons Schedule	INOT SCHEQUIED		
16. Other Information	ation		
Literature References	Standard for the Unifo November 2016. Lewis, Richard J. Sr. 'H Inc., NY, 1997. National Road Transpo	orm Scheduling of Medicines and Poisons Hawley's Condensed Chemical Dictionar ort Commission, 'Australian Code for the	s No. 15', Commonwealth of Australia, y 13th. Ed.', Rev., John Wiley and Sons, Transport of Dangerous Goods by Road

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous

and Rail 7th. Ed.', 2007.

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Contact Person/Point	Chemicals', 2011. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010. Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'. Safe Work Australia, 'Hazardous Substances Information System, 2005'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'. 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. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results
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