# Safety Data Sheet

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Infosafe No™

Issue Date : September 2014 RE-

RE-ISSUED by CHEMSUPP

Product Name : PHOSPHORIC ACID 85%

1CH4S

Classified as hazardous				
1. Identification				
GHS Product	PHOSPHORIC ACID 85%			
Identifier				
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 21	)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia			
Telephone/Fax	Tel: (08) 8440-2000			
Number	Fax: (08) 8440-2001			
Recommended use of the chemical and restrictions on use	Fertilizer; manufacturer of phosphate fertilizers pharmaceutical chemicals, activated carbon, an soap, rust inhibitors, wax and rubber latex; also printing, opal glasses, cotton dying, metal clear soft drinks, and laboratory reagent.	and salts, polyphosphates, soil stabiliser, detergents, nimal feed, ceramics, food additive, food processing, used in electropolishing, engraving and photoengraving, ning, sugar refining and water treatment. Petrol additive,		
Other Names	Name	Product Code		
Other Information	PHOSPHORIC ACID 85% AR PHOSPHORIC ACID 85% LR PHOSPHORIC ACID 85% FCC PHOSPHORIC ACID 85% TG PHOSPHORIC ACID 25% w/w AR Orthophosphoric Acid EMERGENCY CONTACT NUMBER: +61 08	PA000 PL000 PP000 PT000 PA384 8440 2000		
	Business hours: 8:30am to 5:00pm, Monday to Chem-Supply Pty Ltd does not warrant that this must ascertain the suitability of the product before testing of the product before use or application upon Chem-Supply Pty Ltd with respect to any this product of any purpose is disclaimed. Exce any statute as to the merchantable quality of th This product is not sold by description. Where the Act apply, the liability of Chem-Supply Pty Ltd is or payment of the cost of replacing the goods of	Friday. product is suitable for any use or purpose. The user ore use or application intended purpose. Preliminary is recommended. Any reliance or purported reliance skill or judgement or advice in relation to the suitability of pt to the extent prohibited at law, any condition implied by is product or fitness for any purpose is hereby excluded. he provisions of Part V, Division 2 of the Trade Practices is limited to the replacement of supply of equivalent goods r acquiring equivalent goods.		

### 2. Hazard Identification

GHS classification	Corrosive to Metals: Category 1
of the	Skin Corrosion/Irritation: Category 1A
substance/mixture	
Signal Word (s)	DANGER
Hazard Statement	H290 May be corrosive to metals.
(s)	H314 Causes severe skin burns and eye damage.
Pictogram (s)	Corrosion
Precautionary	P234 Keep only in original container.
statement –	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
Prevention	P264 Wash thoroughly after handling.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
statement –	P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse
Response	skin with water/shower.
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
	breathing.
	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
	if present and easy to do. Continue rinsing.
	P310 Immediately call a POISON CENTER or doctor/physician.



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Product Name :	PHOSPHORIC ACID 85	5%				
		Classified as ha	azardous			
	P363 Wash contaminated c	lothing before reu	JSe.			
Precautionary	P405 Store locked up.	etent/container u	ith a registant inner	liner		
statement – Storage	P406 Store in corrosive resi		nin a resistant inner			
3. Composition/II	Itormation on ingredie	ents				
Characterization						
Ingredients	<u>Name</u>	CAS	<b>Proportion</b>	Hazard Symbol	Risk Phrase	
	Phosphoric acid Water to make a total of 100	7664-38-2 0% 7732-18-5	85 % -	С	R34	
4. First-aid meas	ures					
Inhalation	If inhaled, remove from cont	taminated area to	fresh air immediate	ely. Apply artificial res	piration if not	
	symptoms appear.	licuit, give oxyger	1. Immediately obtain	i medical ald li cougr	I OF OTHER	
Ingestion	DO NOT INDUCE VOMITIN	G. Wash out mo	uth with water, aftern	vards drink plenty of v	water. Seek	
Skin	Remove contaminated cloth	ning and wash be	fore re-use. Wash a	affected areas with co	pious quantities of	
Eve contact	water immediately. Seek im Seek immediate medical as	nmediate medical	advice. liately irrigate with co	poious quantity of wat	er for at least 15	
	minutes. Eyelids to be held	open.				
First Aid Facilities	Maintain eyewash fountain a	and safety showe	er in work area.	motion Contro		
Advice to Doctor	For advice contact the Nati	onal Poisons Info	ormation Centre (Ph	nnauon Centre. one Australia 13 11 26	S. New Zealand	
	0800 764 766) or a doctor.					
5. Fire-fighting m	easures			- 4		
Hazards from Combustion	Phosphoric acid forms toxic	pnospnorous ox	ide fumes on compu	stion.		
Products						
Specific Methods	extinguishing media.	ost appropriate to	or the surrounding fir	e. No limitations to tr	ie type of	
	Small fire: Use dry chemical, CO2 or water spray.					
	Large fire: Use water spray, fog or foam - Do NOT use water jets. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities					
Spacific bazarde	of water until well after the fi	ire is out. Avoid g	etting water inside the	he containers.	asses Containers	
arising from the	may explode when heated.	or near will prode	ace initiating, poison		gases. Containers	
chemical Hazebom Codo	20					
Precautions in	Wear SCBA and chemical s	plash suit. Fully e	encapsulating, gas-t	iaht suits should be w	orn for maximum	
connection with Fire	protection. Structural firefight	nter's uniform is N	NOT effective for the	se materials.		
6. Accidental rele	ease measures					
Personal Precautions	Avoid inhalation and ingesti- non-essential personnel.	on. Avoid contact	t with skin, eyes and	clothing. Evacuate t	he area of all	
Personal Protection	Wear protective clothing spe	ecified for normal	operations (see Se	ction 8)		
Clean-up Methods -	Absorb or contain liquid with	n sand, earth or s	pill control material.	Shovel up using non	sparking tools and	
Sinan Spinages	drum or overdrum.	container for su		Sal. 1 ut leaking conta		
Clean-up Methods -	Seek expert advice on hand	lling and disposa	l.			
Environmental	Avoid release to the environ	iment.				
Precautions						
7. Handling and s	storage	d contact with cki	n eves and clothing	Wash hands and f	ace thoroughly	

Precautions for SafeAvoid prolonged or repeated contact with skin, eyes and clothing . Wash hands and face thoroughlyHandlingafter working with material. Use with adequate ventilation. In case of insufficient ventilation, wear<br/>suitable respiratory equipment If you feel unwell, seek medical attention and show the label when

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Product Name :	PHOSPHORIC AC	ID 85%				
		Classified as haz	ardous			
Conditions for safe storage, including any incompatabilities	possible. Keep away Store in well ventilate protected against phy from direct sunlight.	possible. Keep away from incompatibles. Store in well ventilated area. Store away from foodstuffs. Keep containers securely sealed and protected against physical damage. Store away from sources of heat or ignition. Keep dry and protect from direct sunlight. Protect from freezing.				
Corrosiveness	Extremely corrosive ir aluminium. Mild corro presence of glass.	n presence of copper, bra sive effect on bronze. Co	ass and stair prosive to fe	nless steel. H rrous metals	ighly corros and alloys.	sive in presence of Non-corrosive in
		uaiu AS 5760 - 1994 Th	e storage an	iu nanuling of	conosives	
8. Exposure con	trols/personal pro	otection	2TEI		10/0	
exposure limit	name		DIEL		WA	
values		ma/m3	maa	ma/m3	maa	Footnote
Other Exposure Information	Phosphoric acid 3 1 STEL: 3 mg/m3 Worksafe Aust. A time weighted average (TWA) has been established for Phosphoric acid (Safe Work Australia) of 1 mg/m3. The corresponding STEL level is 3 mg/m3. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The exposure value at the TWA is the average airborne concentration of a particular substance					
Appropriate engineering control	Provide sufficient ventilation to ensure that the working day for a 5 day working week. Provide sufficient ventilation to ensure that the working environment is below the TWA (time weighted controls average). 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, are other methods					
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit toring training maintenance and impanding.					
Eye 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	Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: rubber or plastic gloves					
Personal Protective	Final choice of persor	nal protective equipment	will depend	on individual	circumstan	ces and/or according
Equipment	to risk assessments u	undertaken.	foot prote -	tion obsuld -		AS 2240
Footwear	Occupational protection	trial situations is advisory ve footwear - Guide to se	, foot protec lection, care	tion should co e and use.		AS 2210,
Body Protection Hygiene Measures	Clean clothing or protective clothing should be worn, preferably with and apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.					
9. Physical and	chemical propertie	es				
Form	Liquid					
Appearance	Clear, colourless, svr	upy liquid.				

Clear, colourless, syrupy liqu
Odourless.
21 °C
158 °C
Soluble in water.
1.685

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Product Name :	PHOSPHORIC ACID 85%			
		Classified as hazardous		
pH	1 (100 g/l, H2O, 20 °C)			
Vapour Pressure	2.2 hPa			
Vapour Density	3.4 (pure)			
(Air=1)	Non compustible mater	ial		
Molecular Weight	98.0	ιαι.		
10. Stability and Chemical Stability	Stable under normal us	se conditons		
Conditions to Avoid	Incompatibles			
Incompatible	Acetulides, alcohols, al	dehvdes, amides, amines, ammonia or ble	ach, azo-compounds, carbides,	
Materials Possibility of hazardous reactions	carbamates, caustics, I halogenated organics, phenols and cresols, pl sulfides and unsaturate Phosphoric acid decom s ketones, phenols, ester explosive hydrogen gas aldehydes, amines, am phenols and cresols, or halids, sodium tetrabyd	ketones, combustible materials, cyanides, e ketones, mercaptins, nitromethane, organi hosphides, silicides, sodium tetrahydrobora ed halides. poses under formation of toxic fumes on c rs, sulfides, mercaptans and halogenated c s when reacting with chlorides and stainless ides, alcohols and glycols, azo-compounds rganophosphates, epoxides, explosives, co proporte, organic peroxides	esters, epoxides, fluorides, glycols, c peroxides, organophosphates, ite, strong caustics, stainless steel, ontact with alcohols, cyanides, irganic compounds. Liberates s steel. Exothermic reactions with s, carbamates, esters, caustics, mbustible materials, unsaturated	
Hazardous	Will not occur.	nobolale, organic peroxides.		
Polymerization				
11. Toxicological	I Information			
Acute Toxicity - Ora	I LD50 (rat): 1,530 mg/kg	g (anhydrous) (IUCLID)		
Acute Toxicity -	LD50 (rabbit): 2,740 m	g/kg (anhydrous)(IUCLID)		
Ingestion	Harmful if swallowed an Symptoms include sour gastrointestinal irritation convulsions.	nd absorbed through membranes. Burns to r acrid taste, coughing, difficult breathing an n, nausea, vomiting, bloody diarrhoea, seve	the mouth, throat and stomach. nd swallowing, conjunctivitis, severe ere abdominal pains, extreme thirst,	
Inhalation	Harmful if inhaled. Vap	our or mist can cause irritation of the nose,	throat, and upper respiratory tract.	
Skin	Harmful if absorbed thr	ough skin. Corrosive. Concentrated acid so	olutions can cause redness, pain,	
Еуе	Harmful if contact the e eyelid spasms, blurred blindness!	onal blistering, and severe skin burns. eyes. Mists may cause eye irritation. Symptovision, chemical conjunctivitis, burns and p	oms include of redness, pain, tearing, ermanent eye damage. risk of	
Carcinogenicity	No evidence of carcino	genic properties.		
Chronic Effects	Dermatitis may occur fr phosphoric acid can ind dermantitis, weak and i Severe exposure to pho	om prolonged or repeated skin contact. Pro crease fluid levels in the lungs (pulmonary or apid pulse, shallow respiration, very little u osphoric acid can lead to shock, circulatory	blonged or over exposure to bedema). May cause clammy skin and rine, bronchitis, shortness of breath. r collapse and death.	
mutagenicity	NO EVIDENCE OF MUTAGE	INIC ERECTS.		
12. Ecological in	formation			
Ecotoxicity	Quantitative data on the	e ecological effect of this product are not av		
Bioaccumulative Potential Information on Ecological Effects	Phosphate (formed who species. Excessive amounts of p organisms.	en phosporic acid is dissolved) is unlikely to phoshphoric acid can affect the pH shift lea	o bioaccumulate in most aquatic ding to a potential risk to aquatic	
13. Disposal con	siderations			
Disposal Considerations Container Disposal	Whatever cannot be sa state and federal gover Dispose container as h	ived for recovery or recycling should be dis nment regulations. azardous waste.	posed of according to relevant local,	

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1CH4S Product Name : **PHOSPHORIC ACID 85%** 

#### Classified as hazardous

#### 14. Transport information

Transport	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following:
Information	Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
U.N. Number	1805
UN proper shipping	PHOSPHORIC ACID
name	
Transport hazard class(es)	8
Hazchem Code	2R
Packaging Method	3.8.8RT8
Packing Group	III
EPG Number	8A1
IERG Number	37

### 15. Regulatory information

S6

Listed in the Australian Inventory of Chemical Substances (AICS).

Regulatory Information **Poisons Schedule** 

## 16 Other Information

10. Other miorina	
Date of preparation	September 2014.
or last revision of	
SDS	
Literature	'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia,
References	June 2013.
	Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
	National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th, Ed.', 2007.
	'I abelling of Hazardous Workplace Chemicals, Code of Proctice' Safe Work Australia.
	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)]'.
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