



Infosafe No™	1CH15	Issue Date : August 2018	RE-ISSUED by CHEMSUPP
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Product Name : **AMMONIUM PERSULFATE**

Classified as hazardous

1. Identification

GHS Product Identifier	AMMONIUM PERSULFATE	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
(24 hour a day available)	CHEMCALL: 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Oxidising agent; bleaching agent; photography; electroplating; etchant for printed circuit boards, copper; manufacture of other persulfates; deodorising and bleaching oils; aniline dyes; preserving foods; depolariser in batteries; washing infected yeast; laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>
	AMMONIUM PERSULFATE LR	AL019
	Ammonium peroxydisulfate	
	Peroxydisulfuric acid diammonium salt	
	Ammonium peroxodisulfate	
	Peroxodisulfuric acid diammonium salt	
	Diammonium peroxodisulphate	
	AMMONIUM PERSULFATE AR	AA019
Other Information	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 Identification

GHS classification of the substance/mixture	Eye Damage/Irritation: Category 2A Oxidizing Solids: Category 3 Acute Toxicity - Oral: Category 4 Sensitization - Respiratory: Category 1 Skin Corrosion/Irritation: Category 2 Specific target organ toxicity - Single Exposure Category 3 (respiratory tract irritation) Sensitization - Skin: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
Pictogram (s)	Flame over circle, Health hazard, Exclamation mark
	  
Precautionary statement – Prevention	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P220 Keep/Store away from clothing/.../combustible materials. P221 Take any precaution to avoid mixing with combustibles. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.



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Precautionary statement – Response	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P271 Use only outdoors or in a well-ventilated area.
	P272 Contaminated work clothing should not be allowed out of the workplace.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	P285 In case of inadequate ventilation wear respiratory protection.
	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P330 Rinse mouth.
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
	P332+P313 If skin irritation occurs: Get medical advice/attention.
Precautionary statement – Storage	P362 Take off contaminated clothing and wash before reuse.
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Precautionary statement – Disposal	P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.
Other Information	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.
	P370+P378 In case of fire: Use USE FLOODING QUANTITIES OF WATER for extinction.
	P403+P233 Store in a well-ventilated place. Keep container tightly closed.
	P501 Dispose of contents/container to an approved waste disposal plant.
	Ammonium persulfate has been subject of a NICNAS report: see National Chemicals Notification and Assessment, Priority Existing Chemical Assessment Report, http://www.nicnas.gov.au/publications/car/pec/pecindex.htm .

3. Composition/information on ingredients

Chemical Characterization	Solid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Ammonium persulfate	7727-54-0	98-100 %		

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek immediate medical advice /attention depending on the severity.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Eye wash station, safety shower and normal washroom facilities.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Specific Methods	Small fire: USE FLOODING QUANTITIES OF WATER. DO NOT use dry chemicals, CO2 or foam. If safe to do so, move undamaged containers from the fire area. DO NOT move cargo if cargo has been exposed to heat. Large fire: Flood fire area with water from a protected position. Cool containers with flooding quantities of water until well after the fire is out. If impossible, withdraw from area and let it burn. Avoid getting water inside the containers; a violent reaction may occur. Dam fire control water for later disposal.
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Specific hazards arising from the chemical Will accelerate burning when involved in a fire. May explode on heating, shock, friction or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, clothing, etc). Fire may produce irritating, poisonous, and/or corrosive gases. Containers may explode on heating. Runoff may create fire or explosion hazard.

Hazchem Code 1Z

Precautions in connection with Fire Wear SCBA and chemical splash suit. Structural firefighter's uniform will provide limited protection.

6. Accidental release measures

Spills & Disposal Do not contaminate. Keep combustibles (wood, paper, clothing, oil, etc.) away from the spilled material. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Use water spray to knock down vapours or divert vapour clouds. Prevent entry into waterways, drains or confined areas. Prevent exposure to heat.
Dry Spill: Use clean non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Move container from spill area.
Small Liquid Spill: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal.
Large Liquid Spill:
SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

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

Clean-up Methods - Small Spillages Do not use rags, sawdust or other combustible absorbents to wipe up spilled material.

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before reuse.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place. Store in well ventilated area. Keep containers closed at all times. Keep away from direct sunlight and other sources of heat or ignition. Keep away from moisture. This product should not be stored on wooden floors. Store away from combustible materials.

Storage Regulations Refer Australian Standard AS 4326 - 1995 'The storage and handling of oxidizing agents'.

Storage Temperatures Store in a cool, dry place.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Ammonium persulfate	-	-	0.01	-	Peak Limitation

Other Exposure Information PEAK LIMITATION: For some rapidly acting substances and irritants, the averaging of the airborne concentration over an eight-hour period is inappropriate. These substances may induce acute effects after relatively brief exposure to high concentrations and so the exposure standard for these substances represents a maximum or peak concentration to which workers may be exposed. Although it is recognised that there are analytical limitations to the measurement of some substances, compliance with these 'peak limitation' exposure standards should be determined over the shortest analytically practicable period of time, but under no circumstances should a single determination exceed 15 minutes.

Appropriate 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. These methods should be used in preference to personal protective equipment.

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



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Eye Protection	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 testing, training, maintenance and inspection.
Hand 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 should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
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.

9. Physical and chemical properties

Form	Solid
Appearance	White crystals.
Odour	Odourless.
Melting Point	120 °C (decomposes)
Solubility in Water	Very soluble in water (620 g/L @ 20 °C).
Specific Gravity	1.98 (@ 20 °C)
pH	3.2 (100 g /l, H ₂ O, 20 °C)
Flammability	Mixtures with combustible material are readily ignited and may burn fiercely releasing toxic fumes (oxides of sulfur and nitrogen) in fire.
Molecular Weight	228.20

10. Stability and reactivity

Chemical Stability	Stability decreases in the presence of moisture.
Conditions to Avoid	May decompose on exposure to moisture (air or water). Shock and heat sensitive. Strong oxidisers, light and imcompatibles.
Incompatible Materials	Reducing agents, organic material, sodium peroxide, water and aluminium powdered metals, potassium hydroxide, acid solutions, ammonia/silver mixtures, iron, ammonia/zinc mixtures, potassium persulfate, combustible material and oxiders.
Hazardous Decomposition Products	Decomposed by moisture to form oxygen and ozone. Burning may produce nitrogen oxides, sulfur oxides and sulfuric acid.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	Harmful if swallowed. Irritation of mucous membranes in the gastrointestinal tract. Corrosive. Symptoms include headache, abdominal pain, diarrhoea, nausea and vomiting.
Inhalation	Harmful if inhaled. Irritating to the mucous membranes of the respiratory tract. Lung sensitizer. Symptoms include sore throat, coughing, dyspnoea, shortness of breath, inflammation of nasal passages and wheezing. Any exposure may cause an allergic reaction with asthma-like symptoms and life-threatening shock. May lead to formation of lung edema, inflammation and chemical pneumonitis.
Skin	Harmful if absorbed through skin. Contact with skin results in irritation, sensitisation, skin burns, allergic reactions and dermatitis. Allergic reactions become more evident upon overexposure to material. Corrosive.
Eye	May cause severe irritation and pain.
Skin Sensitisation	May produce allergic reaction to the skin.
Carcinogenicity	Not classified as a human carcinogen.
Chronic Effects	Prolonged skin contact may cause an allergic reaction with dermatitis. Prolonged or repeated exposure with the material may affect respiration and metabolism.



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Mutagenicity No evidence of mutagenic properties.**12. Ecological information****Ecotoxicity** Toxic for aquatic organisms. Product reacts with water.**Persistence and degradability** No persistence/degradability data available for this product.**Environmental Protection** Reacts with water to form toxic decomposition products including oxygen and ammonium compounds.**13. Disposal considerations****Disposal Considerations** Dispose of according to relevant local, state and federal government regulations.**14. Transport information****Transport Information** Dangerous goods of Class 5.1 (Oxidizing Agent) are incompatible in a placard load with any of the following:
Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and Combustible liquids.**U.N. Number** 1444**UN proper shipping name** AMMONIUM PERSULFATE**Transport hazard class(es)** 5.1**Hazchem Code** 1Z**Packaging Method** 3.8.5.1**Packing Group** III**EPG Number** 5A1**IERG Number** 31**15. Regulatory information****Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS).**Poisons Schedule** Not Scheduled**16. Other Information****Literature References**
'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
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.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous 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:****Contact Person/Point**

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Empirical Formula & (NH₄)₂ S₂ O₈

Structural Formula

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