



Infosafe No™	1CH6P	Issue Date : August 2019	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM PERSULFATE**

Classified as hazardous

1. Identification

GHS Product Identifier	SODIUM 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	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Bleaching agent (fats, oils, fabrics, soap), battery depolarisers, emulsion polymerisation; laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>
	SODIUM PERSULFATE LR Sodium peroxodisulfate, Sodium peroxydisulfate	SL096

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	Oxidizing Solids: Category 3 Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2A Sensitization - Respiratory: Category 1 Sensitization - Skin: Category 1 Specific Target Organ Toxicity - Single Exposure Category 3 (respiratory tract irritation)
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.
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.



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Precautionary statement – Response	<p>P285 In case of inadequate ventilation wear respiratory protection.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P330 Rinse mouth.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362 Take off contaminated clothing and wash before reuse.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.</p> <p>P370+P378 In case of fire: Use flooding quantities of water for extinction.</p>
Precautionary statement – Storage	<p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p>
Precautionary statement – Disposal	<p>P405 Store locked up.</p> <p>P501 Dispose of contents/container to an approved waste disposal plant.</p>

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>
	Sodium persulfate	7775-27-1	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. Consult a physician.
Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. Seek immediate medical assistance.
Skin	Remove contaminated clothing and wash affected skin with soap and water. If irritation occurs seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
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

Hazards from Combustion Products	May liberate toxic fumes in fire (sulfur oxides).
Specific Methods	<p>Small fire: Use flooding quantities of water. DO NOT use dry chemical, CO2 or foam.</p> <p>If safe to do so, move undamaged containers from the fire area. DO NOT move cargo if cargo has been exposed to heat.</p> <p>Large fire: Flood fire area with water from a protected position.</p> <p>Cool containers with flooding quantities of water until well after the fire is out. If possible, 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.</p>
Specific hazards arising from the chemical	Will accelerate burning when involved in a fire. May explode on heating, shock, friction or contamination. May 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.
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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)

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin and eyes . Wash hands and face thoroughly after working with material. Wear suitable protective clothing.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place. Store away from heat, sparks, open flame, sources of ignition and combustibles. Keep containers closed at all times. Use only plastic and stainless steel containers.

Corrosiveness Corrosive in presence of aluminium, copper, steel and zinc. Non-corrosive in presence of glass.

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

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Sodium persulfate			0.01		Peak Limitation
Other Exposure Information	'Peak Limitation' - a ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established by Safe Work Australia for this product of 0.01 mg/m ³ Peak limitation.					
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 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.					
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	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.					
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.					
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.					
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.					



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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 crystalline powder.

Odour Odourless.

Melting Point ~180 °C (decomposes)

Solubility in Water Soluble (238.1 g/l @ 20 °C)

Solubility in Organic Solvents Insoluble in methanol, ether, n-octanol.

Specific Gravity 2.4

pH 3.5 - 3.8 (100 g/l, H₂O, 20 °C)

Flammability Non combustible material.

Molecular Weight 238.10

Other Information Decomposes in moist air. Decomposed by alcohol.

10. Stability and reactivity

Chemical Stability Stable under normal use conditons.

Conditions to Avoid Exposure to moisture. Heat, flames, ignition sources and incompatibles.

Incompatible Materials Acids, iron and steel, finely powdered metals, reducing agents, strong bases, heavy metals, sodium peroxides, water, organic materials and alcohols.

Hazardous Decomposition Products Decomposes if stored under excessive heat and/or moisture, generates heat and releases oxides of sulfur and sodium, dense mists of sulfuric acid and oxygen.

Possibility of hazardous reactions Reacts with acids, alkalis and reducing agents to release oxygen. May cause fire if in contact with other chemicals, paper and other flammable materials.

Hazardous Polymerization Will not occur.

11. Toxicological Information

Acute Toxicity - Oral LD50 (rat): 920 mg/kg (IUCLID)

Ingestion Harmful if swallowed. Causes severe irritation and possible burns to the mouth and throat. Gastrointestinal disturbances may be expected with nausea, headaches, abdominal pain and vomiting. May be fatal.

Inhalation Causes irritation to the mucous membranes and the respiratory tract. Symptoms may include sore throat, shortness of breath, coughing, inflammation of the nasal passage, and wheezing. May cause lung edema, a medical emergency. May cause sensitisation by inhalation. Asthma-like symptoms and life-threatening shock may result. May cause pulmonary oedema (latency time until onset of action).

Skin Contact causes severe irritation or burns. Symptoms include redness, itching, and pain. May cause sensitisation by skin contact.

Eye Causes severe irritation or burns with eye damage.

Carcinogenicity No evidence of carcinogenic properties.

Chronic Effects Repeated or prolonged skin contact may cause chronic dermatitis and may cause allergic reactions in sensitive individuals.

Mutagenicity No evidence of mutagenic properties.

12. Ecological information

Ecotoxicity Reacts with water to form toxic decomposition products. Harmful effect due to pH shift.

Acute Toxicity - Fish LC50 (Onchorhynchus mykiss): 163 mg/l/96 h.

Acute Toxicity - Daphnia EC50 (Daphnia magna): 133 mg/l/48 h.

13. Disposal considerations



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Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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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	1505
UN proper shipping name	SODIUM 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). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
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 Chemical 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 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.
Contact Person/Point	

Empirical Formula & Structural Formula Na₂ S₂ O₈

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