



Infosafe No™	1CHHR	Issue Date : November 2015	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM LAURYL SULFATE**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	SODIUM LAURYL SULFATE	
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
<b>Recommended use of the chemical and restrictions on use</b>	Wetting agent in textile industry, detergent in toothpaste, surface-active agent in shampoo, dispersing agent in creams, lotions and medical preparations, food additive (thickener and emulsifier), electrophoretic separation of proteins and lipids and laboratory reagent.	
<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	Sodium dodecyl sulfate, Dodecyl sodium sulfate, SDS SODIUM LAURYL SULFATE LR	SL078
<b>Other Information</b>	EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.	

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**

<b>GHS classification of the substance/mixture</b>	Acute Toxicity - Dermal: Category 3 Eye Damage/Irritation: Category 1 Flammable Solids: Category 2 Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 2 Specific Target Organ Toxicity - Single Exposure Category 2
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H228 Flammable solid. H302 Harmful if swallowed. H311 Toxic in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.
<b>Pictogram (s)</b>	Flame, Corrosion, Skull and crossbones



<b>Precautionary statement – Prevention</b>	P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P240 Ground/bond container and receiving equipment. 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. P280 Wear protective gloves/protective clothing/eye protection/face protection.
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<b>Precautionary statement – Response</b>	Inhalation P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell.
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**Precautionary statement – Storage**

**Ingestion**  
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.

**Skin**  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

**Eye**  
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.

**Fire**  
P370+P378 In case of fire: Use foam, dry chemical, CO2 or water spray for extinction.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**3. Composition/information on ingredients**

<b>Chemical Characterization</b>	Solid				
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Sodium lauryl sulfate	151-21-3	90-100 %	Xn, Xi	R21/22, R37/38, R41
<b>Other Information</b>	May contain small amounts of similar sodium alkyl sulfates.				

**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. Get medical aid if cough or other symptoms appear.

**Ingestion** Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

**Skin** Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If persistent irritation occurs, obtain medical attention.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain 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 a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.

**5. Fire-fighting measures**

**Hazards from Combustion Products** Hydrogen sulfide and oxides of carbon and sulfur.

**Specific Methods** Small fire: Use foam, dry chemical, CO2 or water spray.  
Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the area. Cool containers with flooding quantities of water until well after the fire is out.

**Specific hazards arising from the chemical** May be ignited by friction, heat, sparks or flame. Vapours, dust, borings or turnings may form explosive mixtures with air. May burn fiercely. May re-ignite after fire is extinguished. Fire may produce irritating, toxic and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways. May be transported in molten form. Solids may melt and flow when heated or involved in a fire.

**Hazchem Code** 1X

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

**Other Information** Contain escaping vapours with water.

**6. Accidental release measures**

**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)



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**Clean-up Methods - Small Spillages** - Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

**Clean-up Methods - Large Spillages** - ELIMINATE all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Do not touch or walk through spilled material. Prevent entry into waterways, drains or confined areas. Prevent dust cloud. Use clean non-sparking tools to collect absorbed material and place it into loosely-covered metal or plastic containers for later disposal.  
SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

**Environmental Precautions** - Prevent contamination of soil and water.

## 7. Handling and storage

**Precautions for Safe Handling** - Avoid substance contact and generation and inhalation of dust. Wash hands and face thoroughly after working with material.  
Use non-sparking tools.

**Conditions for safe storage, including any incompatibilities** - Store in well ventilated area. Store away from oxidizing agents. Keep containers securely sealed and protected against physical damage. Keep dry and protect from direct sunlight. Store at room temperature (15 - 25 °C).

**Storage Regulations** - Refer Australian Standard AS/NZS 5026-2012 'The storage and handling of Class 4 dangerous goods'.  
Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

## 8. Exposure controls/personal protection

**Other Exposure Information** - A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m<sup>3</sup> for dusts when limits have not otherwise been established.

**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.

**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** - Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Plastic or rubber gloves.

**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** - Flame retardant protective clothing. 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 or light yellow crystals or powder.

**Odour** - Almost odourless.

**Melting Point** - 204 - 207 °C

**Solubility in Water** - Soluble in water (150g/L @ 20 °C), forming an opalescent solution.

**Solubility in Organic Solvents** - Soluble in isopropyl alcohol and xylene.

**Specific Gravity** - 0.37

**pH** - 6-9 (10 g/l, H<sub>2</sub>O)



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**Partition Coefficient:** Log P(o/w) = 1.60**n-octanol/water****Flash Point** >150 °C (O.C.)**Flammability** Combustible.**Molecular Weight** 288.38**Other Information** Dynamic Viscosity: 0.5-8.0 Pa.s @ 25 °C (liquid); 25-50 Pa.s @ 25 °C (paste)**10. Stability and reactivity****Chemical Stability** Stable. Hygroscopic.**Conditions to Avoid** Heating, flames, and sparks. Extremes of temperature and direct sunlight.**Incompatible Materials** Strong acids, strong alkali and strong oxidising agents.**Hazardous Decomposition Products** May liberate toxic fumes in fire including carbon oxides, sulphur oxides and sodium oxides.**Possibility of hazardous reactions** Contact with strong oxidising agents increases risk of fire.**Hazardous Polymerization** Will not occur.**11. Toxicological Information****Acute Toxicity - Oral** LD50 (rat): 1288 mg/kg.**Acute Toxicity - Inhalation** LD50 (rat): > 3900 mg/kg/ 1hr.**Ingestion** Harmful if swallowed. May cause respiratory tract and stomach irritation, nausea and diarrhoea.**Inhalation** Irritating to the nose, throat and upper respiratory tract. Symptoms include coughing, dry throat, difficulty in breathing, nasal congestion and headaches.**Skin** Irritating to skin. Harmful in contact with skin and if absorbed through skin.**Eye** Irritating to eyes. May cause burning sensation and severe corrosive injury.**Carcinogenicity** No evidence of carcinogenic properties.**Reproductive Toxicity** Evidence of reproductive effects.**Chronic Effects** Prolonged or repeated skin contact may cause dermatitis.**Mutagenicity** No evidence of mutagenic properties.**12. Ecological information****Ecotoxicity** Toxic for aquatic organisms.**Persistence and degradability** Biodegradation: 90%/28 d (closed bottle test); Readily biodegradable.**Mobility** Behaviour in environmental compartments: log P(oct): 1.6**Bioaccumulative Potential** No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).  
BOD: 95.9%  
COD: 95.1%**Environmental Protection** Do not allow to enter waters, waste water, or soil!**Acute Toxicity - Fish** Onchorhynchus mykiss LC50: 4.3 mg/l/96 h;  
L. macrochirus LC50: 4.5 mg/l/96 h.**Acute Toxicity - Daphnia** Daphnia magna EC50: 6.3 mg/l/48 h.**Acute Toxicity - Algae** Selenastrum capricornutum IC50: 3.7 mg/l/8 d.**Acute Toxicity - Bacteria** Photobacterium phosphoreum EC50: 0.5 - 1.2 mg/l/30 min.**13. Disposal considerations**



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<b>Disposal Considerations</b>	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**

<b>Transport Information</b>	- Class 4. 1 Flammable solids - Class 4. 2 Spontaneously combustible substances - Class 4. 3 Dangerous when wet substances - Class 5. 2 Organic peroxides - Class 6 Poisonous (toxic) substances (capable of igniting/burning)
<b>U.N. Number</b>	2926
<b>UN proper shipping name</b>	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.
<b>Transport hazard class(es)</b>	4.1
<b>Sub.Risk</b>	6.1
<b>Hazchem Code</b>	1X
<b>Packing Group</b>	II
<b>EPG Number</b>	4G1
<b>IERG Number</b>	36

**15. Regulatory information**

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS).
<b>Poisons Schedule</b>	Not Scheduled

**16. Other Information**

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons No. 6', Commonwealth of Australia, February 2015. 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)]'.
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<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> 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.
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**Empirical Formula & Structural Formula** NaC<sub>12</sub>H<sub>25</sub>SO<sub>4</sub>

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