



Material Safety Data Sheet

CS: 1.4.95

chem-supply

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Infosafe No™ 1CHHR Issue Date :December 2010 -ISSUED by CHEMSUPP CS: 1.4.95

Product Name **SODIUM LAURYL SULFATE**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SODIUM LAURYL SULFATE
Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address 50 Bedford Street GILLMAN
 SA 5013 Australia
Telephone/Fax Number Tel: (08) 8440-2000
 Fax: (08) 8440-2001
Recommended Use 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.

Other Names	Name	Product Code
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Sodium dodecyl sulfate
 Dodecyl sodium sulfate
 SDS

SODIUM LAURYL SULFATE LR SL078

Other Information 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. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous according to criteria of NOHSC
 HAZARDOUS SUBSTANCE.
 DANGEROUS GOODS.
 Hazard classification according to the criteria of NOHSC.
 Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) Classified as hazardous according to criteria of NOHSC
 R21/22 Harmful in contact with skin and if swallowed.
 R37/38 Irritating to respiratory system and skin.
 R41 Risk of serious damage to eyes.

Safety Phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37 Wear suitable protective clothing and gloves.

Irritancy of Product Irritating to respiratory tract, digestive tract, skin and eyes.

Teratogenicity Evidence of teratogenic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Solid

Characterization	Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Sodium lauryl sulfate		151-21-3	90-100 %	Xn, Xi	R21/22, R37/38, R41

Other Information May contain small amounts of similar sodium alkyl sulfates.



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4. FIRST AID MEASURES

Inhalation	Remove victim to fresh air. Keep warm and at rest. If breathing is difficult, give oxygen. Seek medical advice if effects persist.
Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If vomiting occurs give further water to achieve effective dilution. Seek immediate medical assistance.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek immediate medical advice.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically.
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, CO ₂ 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	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

Spills & Disposal	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. Obtain expert advice on use of water as spilled material may be water-reactive. Prevent dust cloud. Use clean non-sparkling 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.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
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.
Conditions for Safe Storage	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).

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 NOHSC Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts when limits have not otherwise been established.
Engineering Controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust



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Respiratory Protection

ventilation, capturing substances at the source, or other methods. 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.

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 Value	6-9 (10 g/l, H ₂ O)
Octanol/Water Partition Coefficient	1.60
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	Oxidising agents.
Hazardous Decomposition Products	May liberate toxic fumes in fire including carbon oxides, sulphur oxides and sodium oxides.
Hazardous Reactions	Contact with strong oxidising agents increases risk of fire.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation	Irritating to the nose, throat and upper respiratory tract. Symptoms include coughing, dry throat, difficulty in breathing, nasal congestion and headaches.
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Ingestion	Harmful if swallowed. May cause respiratory tract and stomach irritation, nausea and diarrhoea.
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.
Chronic Effects	Prolonged or repeated skin contact may cause dermatitis.
Reproductive Toxicity	Evidence of reproductive effects.
Mutagenicity	No evidence of mutagenic properties.
Carcinogenicity	No evidence of carcinogenic properties.
Acute Toxicity - Oral	LD50 (rat): 1288 mg/kg.
Acute Toxicity - Inhalation	LD50 (rat): > 3900 mg/kg/ 1hr.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic for aquatic organisms.
Persistence / 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%
Environ. 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

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	- 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)
U.N. Number	2926
Proper Shipping Name	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.
DG Class	4.1
Sub.Risk	6.1
Hazchem Code	1X
Packing Group	II
EPG Number	4G1
IERG Number	36

15. REGULATORY INFORMATION

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



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Hazard Category Harmful, Irritant**16. OTHER INFORMATION**

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural FormulaNaCl₂H₂₅SO₄**Literature References**

Australian Government Department of Health and Ageing, 'Standard for the Uniform Scheduling of Drugs and Poisons No. 24', Commonwealth of Australia 2009.
 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.
 South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.
 Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.
 Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
 Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.
 Worksafe Australia, 'Hazardous Substances Information System, 2005'.
 Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]'.
 Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]'.

User Codes

<u>User Field Title</u>	<u>User Code</u>
CAS No.	151-21-3
Risk Phrases	21/22-37/38-41
Safety Phrases	26-36/37
...End Of MSDS...	

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