

Material Safety Data Sheet

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Infosafe No.	1CH66	Issue Date : October 2006	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM ALGINATE**

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name	SODIUM ALGINATE	
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	Thickeners, stabilizers and emulsifiers in foods, especially icecream; boiler compounds; medicine; textile printing; paper coating; foods; pharmaceutical preparations; water-base paints; cement compositions; experimental ocean-floor covering and laboratory reagent.	
Other Names	Name	Product Code
	SODIUM ALGINATE FG	SP117
	SODIUM ALGINATE LR	SL117
	Sodium polymannuronate	
	Alginic acid sodium salt	
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	Not classified as hazardous NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	Not classified as hazardous
Safety Phrase(s)	S22 Do not breathe dust. S24/25 Avoid contact with skin and eyes.
Medical Conditions Generally Aggravated by Exposure	Persons with a history of chronic lung diseases may be at increased risk from exposure to excessive levels of nuisance dust.
Safety Hazards	Extremely slippery when wet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Information on Composition	Solid Extracted from brown seaweeds (alginic acid).
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Product Name : **SODIUM ALGINATE**

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Sodium Alginate	9005-38-3	100 %		

4. FIRST AID MEASURES

Inhalation Remove from exposure. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If irritation develops and persists, seek immediate medical attention.

Ingestion Rinse mouth thoroughly with water immediately. If swallowed, do NOT induce vomiting. In severe cases obtain medical attention.

Skin Wash affected areas with copious quantities of water. Remove contaminated clothing and wash before re-use. Seek medical attention in severe cases.

Eye If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelids(s) open. Take care not to rinse contaminated water into the non-affected eye. If irritation develops seek medical attention.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically.

Other Information For advice, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia, or a doctor.

5. FIRE FIGHTING MEASURES

Hazards from Combustion Products Irritating and toxic fumes and gases, oxides of sodium and carbon.

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

Specific Hazards May burn but do not ignite readily. Once ignited product tends to smolder. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated. This product in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Hazchem Code None Allocated

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. Water washdown not recommended.
SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions NOTE: Extremely slippery when wet.

7. HANDLING AND STORAGE

Precautions for Safe Handling Avoid ingestion and inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. If ingested, seek medical advice immediately and show the container or the label. Wear appropriate protective equipment. Minimize dust generation and accumulation. Wash thoroughly with soap and water after handling. Wash hands before eating. Use only in a well-ventilated area. It is essential that all who come into contact with this material, maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet. Keep away from heat and all sources of ignition. Ground all equipment containing material. Keep away from incompatibles such as oxidizing agents, acids, alkalis. Empty containers pose a fire risk, evaporate the residue under a fume hood.

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Product Name : **SODIUM ALGINATE**

Conditions for Safe Storage Store in tightly closed containers, in a cool, dry, well-ventilated area, away from incompatible materials. Store away from oxidizing agents. Keep well closed and protected from direct sunlight and moisture. Keep containers protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Avoid heat, sparks, flames and other ignition sources.

Storage Temperatures Store at room temperature (15 to 25 °C recommended).

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/m³ 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 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.

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 to tan powder.

Odour Slight odour.

Melting Point >300 °C

Solubility in Water Soluble, forming viscous colloidal solutions, becoming a paste at higher concentrations.

Solubility in Organic Solvents Insoluble in alcohol, chloroform and diethyl ether.

pH Value ~neutral (1% solution)

Flammability Combustible.
Not flammable. However, substance will burn when in contact with a flame, self-extinguishes when ignition source is removed. Once ignited product tends to smoulder.

Auto-Ignition Temperature > 200 °C

Explosion Properties Dusts at sufficient concentrations can form explosive mixtures with air.

Burning Characteristics Substance will burn when in contact with a flame, self-extinguishes when ignition source is removed. Once ignited product tends to smoulder.

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Product Name : **SODIUM ALGINATE**

10. STABILITY AND REACTIVITY

Chemical Stability Stable under ordinary conditions of use and storage. Hygroscopic

Conditions to Avoid Excess heat, ignition sources, dust generation and accumulation, incompatible materials.

Incompatible Materials Strong oxidisers, strong acids, strong bases.

Hazardous Decomposition Products Oxides of sodium and carbon.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation Excessive inhalation of dust can mechanically impede respiration. Due to the hygroscopic properties of the gums, they can form a paste or gel in the airway.

Ingestion May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. The greatest danger from ingestion of large quantities is intestinal obstruction. Low hazard for usual industrial handling.

Skin Prolonged contact with the dry powder may cause drying or chapping of the skin.

Eye May cause mild eye irritation.

Chronic Effects Prolonged contact with the dry powder may cause drying or chapping of the skin.

Carcinogenicity Not listed in the IARC Monographs.

Acute Toxicity - Oral LD50 (rat): >5 g/kg.

Acute Toxicity - Inhalation LC50 (rat): >4.7 mg/l.

Eye Irritation Non-irritating to rabbit eye.

Skin Irritation Non-irritating to rabbit skin.

12. ECOLOGICAL INFORMATION

Ecological Information No ecological problems are to be expected when the product is handled and used with due care and attention.

Persistence / Degradability The organic components are biodegradable and can be expected to contribute to BOD.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of according to relevant local, state and federal government regulations.

14. TRANSPORT INFORMATION

U.N. Number None Allocated

DG Class None Allocated

Hazchem Code None Allocated

Packing Group None Allocated

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled

16. OTHER INFORMATION

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Product Name : **SODIUM ALGINATE**

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula (C₆H₇O₆Na)_n

Literature References

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National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.
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Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.
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Worksafe Australia, 'Hazardous Substances Information System, 2005'.
Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.
Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.

User Codes

User Field Title	User Code
Safety phrases	22-24/25
CAS No.	9005-38-3
...End Of MSDS...	