



Infosafe No™	1CH0M	Issue Date : February 2012	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **AGAR 1000 Gel**

Not classified as hazardous

1. Identification

GHS Product Identifier	AGAR 1000 Gel		
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		
Recommended use of the chemical and restrictions on use	Microbiology and bacteriology (culture medium), antitackiness and antistaling agent in bakery products, icings and glazes, meats, and poultry; gelation agent in desserts, beverages; protective colloid in ice cream, pet foods, health foods, laxatives, pharmaceuticals, as dental impression mold base, photographic emulsions; substitute for gelatin, isinglass, gels in cosmetics, confectionery, dairy products, as gel filter or gel binder in meat canning, fish products; processed fruits, sweet sauces, and reconstituted vegetables; in production of medicinal encapsulations and ointments; therapeutic category: cathartic; vet: laxative for dogs and cats, demulcent; as corrosion inhibitor, sizing for silks, solids and paper; dyeing and printing fabric and textiles; in adhesives; waveset preparations and laboratory reagent.		
Other Names	<u>Name</u>	<u>Product Code</u>	
	AGAR 1000 Gel LR Agar-agar	AL027	
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. Hazard Identification

GHS classification of the substance/mixture	Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
--	--

3. Composition/information on ingredients

Chemical Characterization	Solid			
Information on Composition	Agar is a heterogeneous mixture of two classes of polysaccharide: agaropectin and agarose. Agar consists of about 70% of agarose and 30% agaropectin.			
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u> <u>Risk Phrase</u>
	AGAR-AGAR POWDER.	9002-18-0	90-100 %	
	Moisture	7732-18-5	0-10 %	

4. First-aid measures

Inhalation	Remove from exposure, rest and keep warm. Blow nose to remove as much dust as possible. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, obtain medical attention.
Ingestion	Rinse mouth with water and then give plenty of water to drink. DO NOT induce vomiting and seek medical attention if large amounts ingested.
Skin	Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. In severe cases or if irritation persists, seek medical attention.
Eye contact	In case of contact with eyes, wash with running water holding eyelids open. Take care not to rinse contaminated water into a non-affected eye. In all cases of eye contamination it is a sensible precaution to seek medical advice.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.



Infosafe No™	1CH0M	Issue Date : February 2012	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **AGAR 1000 Gel**

Not classified as hazardous

Advice to Doctor	Treat symptomatically and supportively.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion Products	Toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide, sulfur oxides and water.
Specific Methods	Small fire: Use dry chemical, CO ₂ , 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 arising from the chemical	May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
Decomposition Temp.	Decomposes at melting point (> 85 °C).
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal	Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. 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. Sweep up spill and dispose of to common solid waste. Residue may be flushed to drain by washing with water, but gel tends to form and product should be swept with a brush while washing down to reduce slippery gel formation. Flush well with water. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)

7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation of dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. If ingested, seek medical advice immediately and show the container or the label. Keep containers closed when not in use. Use in designated areas with adequate ventilation. Minimize dust generation and accumulation. Keep away from heat and all sources of ignition. Ground all equipment containing material. Protect against physical damage. Wash thoroughly after handling. Wash clothing before reuse. Generally not hazardous in normal handling, however good laboratory practices should always be used. Containers of this material pose a fire risk and may be hazardous when empty since they retain product residues (dust, solids); evaporate the residue under a fume hood and observe all warnings and precautions listed for the product.
Conditions for safe storage, including any incompatibilities	Store in labelled, corrosion-resistant, tightly closed containers, in a cool, dry, ventilated area away from incompatible materials. Moisture sensitive. Store away from water/moisture, oxidizing materials. Protect from humidity and water, physical damage and direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
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 Safe Work Australia for this product. There is a blanket limit of 10 mg/m ³ 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



Infosafe No™	1CH0M	Issue Date : February 2012	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **AGAR 1000 Gel**

Not classified as hazardous

Eye Protection	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.
Body Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Plastic or rubber gloves.
Hygiene Measures	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. 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 pale buff powder.
Odour	Odourless or characteristic odour.
Decomposition Temperature	Decomposes at melting point (> 85 °C).
Melting Point	85 °C
Freezing Point	Solidifies from 32-40 °C.
Solubility in Water	Negligible in cold water (< 0.1%), slowly soluble in hot water to a viscid solution. Soluble with boiling.
Solubility in Organic Solvents	Insoluble in alcohol.
pH	5.0 - 7.0
Vapour Pressure	Negligible.
Viscosity	Relatively low viscosities for seaweed extracts; viscosity is dependent on temperature and pH, but fairly constant from pH 4.5-9.0.
Volatile Component	0 %vol @ 21 °C
Flammability	Combustible.
Explosion Properties	This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.
Molecular Weight	8,000 to greater than 100,000.
Other Information	Strongly hydrophilic, it absorbs 20 times its weight of cold water with swelling. Forms strong gels at approximately 32-40 °C. Taste: tasteless.

10. Stability and reactivity

Chemical Stability	Stable at room temperature in closed containers under normal storage and handling conditions. Moisture sensitive.
Conditions to Avoid	Dust generation, extreme/excess heat, moisture and incompatibles.
Incompatible Materials	Strong oxidizing agents, water/moisture.
Hazardous Decomposition Products	Toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide, sulfur oxides and water.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat): 11000 mg/kg;
Ingestion	Ingestion of large quantities may irritate the gastric tract and stomach, and produce gastrointestinal symptoms, including diarrhoea, flatulence, and rarely faecal impaction. Expected to be a low ingestion hazard.
Inhalation	Inhalation of dusts may cause respiratory tract irritation. Low hazard for usual industrial handling.
Skin	May cause slight skin irritation. Prolonged or repeated contact may cause mild irritation. Low hazard for usual industrial handling.



Infosafe No™	1CH0M	Issue Date : February 2012	RE-ISSUED by CHEMSUPP
--------------	-------	----------------------------	-----------------------

Product Name : **AGAR 1000 Gel**

Not classified as hazardous

Eye	May cause irritation in contact with eyes, resulting in tearing and stinging.
Carcinogenicity	Not listed in the IARC Monographs.
Chronic Effects	Prolonged or repeated skin contact may cause mild irritation. Repeated or prolonged exposure to the substance can produce damage to lungs.
Mutagenicity	No evidence of mutagenic properties.

12. Ecological information

Ecological Information	No ecological problems are to be expected when the product is handled and used with due care and attention.
Ecotoxicity	Quantitative data on the ecological effect of this product are not available.
Persistence and degradability	Readily Biodegradable.

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.
--------------------------------	---

14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
------------------------------	--

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 No. 4', Commonwealth of Australia, June 2013. 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. 'Labelling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia. 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)]'.
------------------------------	--

Contact Person/Point	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.
-----------------------------	--

Empirical Formula & Structural Formula	(C ₁₂ H ₁₈ O ₉) _n ...End Of MSDS...
---	---

© Copyright ACOHS Pty Ltd

Copyright in the source code of the HTML, PDF, XML, XFO and any other electronic files rendered by an Infosafe system for Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd.

Copyright in the layout, presentation and appearance of each Infosafe MSDS displayed is the intellectual property of Acohs Pty Ltd. The compilation of MSDS's displayed is the intellectual property of Acohs Pty Ltd.

Copying of any MSDS displayed is permitted for personal use only and otherwise is not permitted. In particular the MSDS's displayed cannot be copied for the purpose of sale or licence or for inclusion as part of a collection of MSDS without the express written consent of Acohs Pty Ltd.