

Infosafe No™ 1CHOM	Issue Date : November 2021	RE-ISSUED by CHEMSUPP
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Product Name **AGAR 1000 Gel**

Not classified as hazardous

1. Identification

GHS Product Identifier	AGAR 1000 Gel	
Company Name	CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
E-mail Address	www.chemsupply.com.au	
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	AL027
	Agar-agar	
	Agar, Bacteriological grade	AS373
	Agar, Plant Tissue Culture grade	AS376

Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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	Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
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3. Composition/information on ingredients

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>
	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.
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Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
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.
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	Vacuum or sweep up material and place into a suitable container for disposal. Avoid creating dusty conditions. Provide ventilation.
Personal Precautions	Avoid inhalation, contact with skin, eyes and clothing.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
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.

7. Handling and storage

Precautions for Safe Handling	Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Take off contaminated clothing and wash it before reuse. Wash promptly with soap and water if skin becomes contaminated.
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	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m ³ . All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be
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Appropriate engineering controls	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. 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	Usually is not required. Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels.
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. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Body Protection	Clean impervious clothing should be worn. 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 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.

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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.

Eye May cause irritation in contact with eyes, resulting in tearing and stinging.

Respiratory sensitisation Not classified based on available information.

Skin Sensitisation Not classified based on available information.

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Not listed in the IARC Monographs.
Not classified based on available information.

Reproductive Toxicity Not classified based on available information.

STOT-single exposure Not classified based on available information.

STOT-repeated exposure Not classified based on available information.

Chronic Effects Prolonged or repeated skin contact may cause mild irritation. Repeated or prolonged exposure to the substance can produce damage to lungs.

Serious eye damage/irritation Not classified based on available information.

Skin corrosion/irritation Not classified based on available information.

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

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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.

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 All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. 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.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.
Safe Work Australia, 'Hazardous Chemical Information System'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula (C12 H18 O9)n

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