

AGAR MATERIAL SAFETY DATA SHEET

1) SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name : Agar

Synonyms Gelose

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2) SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%	EINECS#
9002-18-0	Agar Agar Agar	100	232-658-1

(H.S.CODE:1302 31 00)

3) SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance Light beige. Caution! This is expected to be a low hazard for usual industrial handling. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs None known.

Potential Health Effects

Eye Dust may cause mechanical irritation.

Skin May cause skin irritation. Low hazard for usual industrial handling.

Ingestion Ingestion of large amounts may cause gastrointestinal irritation. Expected to be a low ingestion hazard.

Inhalation May cause respiratory tract irritation. Low hazard for usual industrial handling.

Chronic No information found.

4) SECTION 4 - FIRST AID MEASURES

Eyes Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.

Inhalation Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician : Treat symptomatically and

5) SECTION 5 - FIRE FIGHTING MEASURES

General Information As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. U appropriate to extinguish fire.

6) SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information	Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks	Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7) SECTION 7 - HANDLING and STORAGE

Handling	Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.
Storage	Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

8) SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
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EXPOSURE LIMITS

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Agar Agar	None listed	None listed	None listed

OSHA Vacated PELs

AGAR	No OSHA Vacated PELs are listed for this chemical. Personal Protective Equipment.
Eyes	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin	Wear appropriate gloves to prevent skin exposure.
Clothing	Wear appropriate protective clothing to minimize contact with skin.
Respirators	Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9) SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Flash Point	Not applicable.
Appearance	light beige	NFPA Rating	(est.) Health: 1; Flammability: 0; Reactivity: 0
Odor	odorless		
pH	Not available.		
Vapor Pressure	Negligible.	Explosion Limits, Lower	Not available.
Vapor Density	Not available.	Upper	Not available.
Evaporation Rate	Not available.	Decomposition Temperature:	
Viscosity	Not available.	Solubility	
Boiling Point	Not available.	Specific Gravity/Density	
Freezing/Melting Point	0 deg C	Molecular Formula	
Autoignition Temperature:	Not applicable.	Molecular Weight	

10) SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability	: Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid	: Dust generation, excess heat, strong oxidants.
Incompatibilities with Other Materials	: Strong oxidizers.
Hazardous Decomposition Products	: Carbon monoxide, irritating and toxic fumes and gases, carbon
Hazardous Polymerization	: Has not been reported.



11) SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#	CAS# 9002-18-0: AW7950000
LD50/LC50	CAS# 9002-18-0: Oral, mouse: LD50 = 16 gm/kg; Oral, rabbit: LD50 = 5800 mg/kg; Oral, rat: LD50 = 11 gm/kg.
Carcinogenicity	AGAR - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology	No information available.
Teratogenicity	No information available.
Reproductive Effect	No information available.
Neurotoxicity	No information available.
Mutagenicity	No information available.
Other Studies	See actual entry in RTECS for complete information.

12) SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Not available.
Environmental Fate	Not available.
Physical/Chemical	Not available.
Other	Not available.

13) SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA P-Series	None listed.
RCRA U-Series	None listed.

14) SECTION 14 - TRANSPORT INFORMATION

US DOT	Not Restricted (as per ICAO -IATA)
Canadian TDG	Not Restricted
IATA	Not Restricted

15) SECTION 15 - REGULATORY INFORMATION

US FEDERAL TSCA

- CAS# 9002-18-0 is listed on the TSCA inventory.
- Health & Safety Reporting List
- None of the chemicals are on the Health & Safety Reporting List.
- Chemical Test Rules
- None of the chemicals in this product are under a Chemical Test Rule.
- Section 12b
- None of the chemicals are listed under TSCA Section 12b.
- TSCA Significant New Use Rule
- None of the chemicals in this material have a SNUR under TSCA.

SARA

- Section 302 (RQ)
None of the chemicals in this material have an RQ.
- Section 302 (TPQ)
None of the chemicals in this product have a TPQ.

Section 313

- No chemicals are reportable under Section 313.
- Clean Air Act:



- This material does not contain any hazardous air pollutants.
- This material does not contain any Class 1 Ozone depleters.
- This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

- None of the chemicals in this product are listed as Hazardous Substances under the CWA.
- None of the chemicals in this product are listed as Priority Pollutants under the CWA.
- None of the chemicals in this product are listed as Toxic Pollutants under the CWA

OSHA:

- None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

AGAR is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:

None of the chemicals in this product are listed. European/International Regulations

European Labeling in Accordance with EC Directives

- Hazard Symbols : Not available.
- Risk Phrases
- Safety Phrases
- S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

- CAS# 9002-18-0:

Canada

- CAS# 9002-18-0 is listed on Canada's DSL/NDSL List.
- WHMIS: Not available.
- CAS# 9002-18-0 is not listed on Canada's Ingredient

Disclosure List. Exposure Limits

16) SECTION 16 - ADDITIONAL INFORMATION

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