

08-30-05

DATE: 06/07/05 ACCT: 888235001 PAGE: 1  
INDEX: A51572432 CAT NO: BE1423500 PO NBR: MARY PINKERTON/VC

\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

Agar  
00475

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: Agar  
Catalog Numbers:  
S70210, S70213, S71441, S71442, S71609, S71614, S71627, S71646, S71659,  
S71666, S71693-4, S716933, S71695-3, S71695-4, S71696-3, S71696-4, S71697-2,  
S71697-3, S71697-4, S71698-2, S71698-4, A360-500, B99737, BP1423-2,  
BP1423-500, BP2466-10, BP2466-100, BP2466-2, BP2466-500, BP2641-1,  
BP2641-100, BP2641-500, S71613, S71656, S71691-1, S71691-2, S71692-2,  
S71693-1, S71693-2, S71695-1, S71695-2, S71696-1, S71696-2, S71697-1,  
S71698-1

Synonyms:  
Gelose.  
Company Identification: Fisher Scientific  
1 Reagent Lane  
Fairlawn, NJ 07410

For information, call: 201-796-7100  
Emergency Number: 201-796-7100  
For CHEMTREC assistance, call: 800-424-9300  
For International CHEMTREC assistance, call: 703-527-3887

\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

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

Hazard Symbols: None Listed.  
Risk Phrases: None Listed.

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

EMERGENCY OVERVIEW

Appearance: light beige solid.  
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.

\*\*\*\* 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 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 and move 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

\*\*\*\* 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:

4,560

DATE: 06/07/05 ACCT: 888235001 PAGE: 2  
INDEX: A51572432 CAT NO: BE1423500 PO NBR: MARY PINKERTON/VC

For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Use agent most appropriate to extinguish fire.  
Autoignition Temperature: Not applicable.  
Flash Point: Not applicable.  
Explosion Limits, lower: Not available.  
Explosion Limits, upper: Not available.  
NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

\*\*\*\* 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.

\*\*\*\* 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.

\*\*\*\* 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.

Chemical Name	Exposure Limits		
	ACGIH	NIOSH	OSHA - Final PELs
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 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Solid  
Color: light beige  
Odor: odorless  
pH: Not available.  
Vapor Pressure: Negligible.  
Vapor Density: Not available.  
Evaporation Rate: Not available.  
Viscosity: Not available.  
Boiling Point: Not available.  
Freezing/Melting Point: Not available.  
Decomposition Temperature: Not available.  
Solubility in water: soluble in hot water  
Specific Gravity/Density: Mixture  
Molecular Formula: 0  
Molecular Weight: 0

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability:  
Stable at room temperature in closed containers under normal storage and handling conditions.  
Conditions to Avoid:

4,5

DATE: 06/07/05 ACCT: 888235001 PAGE: 3  
INDEX: AS1572432 CAT NO: BP1423500 PO NBR: MARY PINKERTON/VC

Dust generation, excess heat, strong oxidants.  
Incompatibilities with Other Materials:  
Strong oxidizers.  
Hazardous Decomposition Products:  
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide  
Hazardous Polymerization: Has not been reported.

\*\*\*\* 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 Effects:  
No information available.  
Neurotoxicity:  
No information available.  
Mutagenicity:  
No information available.  
Other Studies:  
See actual entry in RTECS for complete information.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.  
US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

US DOT  
No information available  
Canadian TDG  
No information available.

\*\*\*\* 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  
CERCLA Hazardous Substances and corresponding RQs  
None of the chemicals in this material have an RQ.  
SARA Section 302 Extremely Hazardous Substances  
None of the chemicals in this product have a TPO.  
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 depletors.  
This material does not contain any Class 2 Ozone depletors.  
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.

4,562

DATE: 06/07/05 ACCT: 888235001 PAGE: 4  
INDEX: AS1572432 CAT NO: BP1423500 PO NBR: MARY PINKERTON/VC

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:  
WGK (Water Danger/Protection)  
CAS# 9002-18-0: 0  
United Kingdom Occupational Exposure Limits  
United Kingdom Maximum Exposure Limits  
Canada  
CAS# 9002-18-0 is listed on Canada's DSL List.  
This product has a WHMIS classification of Not controlled..  
CAS# 9002-18-0 is not listed on Canada's Ingredient Disclosure List.  
Exposure Limits

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 7/13/1999 Revision #7 Date: 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.