

7/25/08

DATE: 01/11/08 ACCT: 888235001 PO NBR: 62245  
INDEX: A80106523 CAT NO: BP160100

Material Safety Data Sheet

garose  
SDS# 00476  
Section 1 - Chemical Product and Company Identification  
Agarose  
Catalog Numbers:  
BP1356-100, BP1356-500, BP1360-100, BP160-100, BP160-500, BP161-100,  
BP162-100, BP163-10, BP163-25, BP164-100, BP164-25, BP164-500, BP165-25,  
BP2410-100

Synonyms:  
None  
Company Identification:  
Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call:  
201-796-7100  
Emergency Number US:201-796-7100  
CHEMTREC Phone Number, US:  
800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 9012-36-6  
Chemical Name: Agarose  
%: 100  
EINECS#: 232-731-8

Hazard Symbols:  
None listed  
Risk Phrases:  
None listed

Section 3 - Hazards Identification  
EMERGENCY OVERVIEW

Caution! May cause eye irritation. This is expected to be a low hazard for usual industrial handling.  
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.  
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: 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.  
Autoignition Temperature: Not applicable.  
Flash Point: Not applicable.  
Explosion Limits: Lower: Not available  
Explosion Limits: Upper: Not available  
NFPA Rating:  
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

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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.

Storage:  
Store in a tightly closed container. Keep from contact with oxidizing materials. Keep away from acids.

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.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Agarose	none listed	none listed	none listed

OSHA Vacated PELs:

Agarose:  
None listed  
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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid  
Color: white  
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: Moderately soluble in water.  
Specific Gravity/Density: 1.7 (water=1)  
Molecular Formula: C12H18O9  
Molecular Weight: 306.12

Section 10 - Stability and Reactivity

Chemical Stability:  
Stable.  
Conditions to Avoid:  
Incompatible materials, dust generation, excess heat.  
Incompatibilities with Other Materials:  
Not available  
Hazardous Decomposition Products:  
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Section 11 - Toxicological Information

RTECS#: CAS# 9012-36-6: None listed  
LD50/LC50:  
RTECS: Not available.  
Carcinogenicity:  
Agarose -  
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
Epidemiology:  
No information found  
Teratogenicity:  
No information found  
Reproductive:  
No information found  
Neurotoxicity:  
No information found  
Mutagenicity:  
No information found  
Other:  
Not available

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## Section 12 - Ecological Information

Not available

## 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

Shipping Name: Not regulated as a hazardous material  
 Hazard Class:  
 UN Number:  
 Packing Group:

Canada TDG

Shipping Name: Not available  
 Hazard Class:  
 UN Number:  
 Packing Group:

## Section 15 - Regulatory Information

US Federal

TSCA

CAS# 9012-36-6 is listed on the TSCA Inventory.

Health &amp; Safety Reporting List

None of the chemicals are on the Health &amp; 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.

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 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 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:

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

California Prop 65

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# 9012-36-6: Not available

Canada

CAS# 9012-36-6 is listed on Canada's DSL List.

Canadian WHMIS Classifications: Not controlled.

This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations and the MSDS

contains all of the information required by those regulations.

CAS# 9012-36-6 is not listed on Canada's Ingredient

Disclosure List.

## Section 16 - Other Information

MSDS Creation Date:

7/12/1999

Revision #7 Date

11/28/2007

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 event 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.