

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Agarose, OmniPur® , For Molecular Biology
Manufacturer EMD Chemicals Inc.
P.O. Box 70
480 Democrat Road
Gibbstown, NJ 08027
Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or
EM Science, Division of EM Industries, Inc.

Product Code 2120
Effective Date 3/3/2003

For More Information Call
856-423-6300 Technical Service
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call
800-424-9300 CHEMTREC (USA)
613-996-6666 CANUTEC (Canada)
24 Hours/Day: 7 Days/Week

Synonym AGAROSE 10, AGAROSE 15, AGAROSE 25, AGAROSE IEF
Material Uses Analytical reagent.
Chemical Family Polysaccharide

Section 2. Composition and Information on Ingredients

Component	CAS #	% by Weight
AGAROSE	9012-36-6	100

Section 3. Hazards Identification

Physical State and Appearance Solid. (Crystalline granules solid.)
Emergency Overview CAUTION!
Handling care generally in keeping with safe laboratory practices is recommended.
Routes of Entry Inhalation. Ingestion.
Potential Acute Health Effects
Eyes No known acute effects of this product resulting from eye contact.
Skin No known acute effects of this product resulting from skin contact.
Inhalation No known acute effects of this product resulting from inhalation.
Ingestion No known acute effects of this product resulting from ingestion.
Potential Chronic Health Effects
Carcinogenic Effects This material is not known to cause cancer in animals or humans.
Medical Conditions Aggravated by Overexposure: Additional information See Toxicological Information (section 11)
Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5. Fire Fighting Measures

Flammability of the Product May be combustible at high temperature.
Auto-ignition Temperature Not available.
Flash Points Not available.
Flammable Limits Not available.
Products of Combustion These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances Not available.
Explosion Hazards in Presence of Various Substances **Risks of explosion of the product in presence of static discharge:** No.
Fire Fighting Media and Instructions **Risks of explosion of the product in presence of mechanical impact:** No.
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Protective Clothing (Fire) Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards Not available.
Special Remarks on Explosion Hazards Not available.

Section 6. Accidental Release Measures

Small Spill and Leak Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Large Spill and Leak Use a shovel to put the material into a convenient waste disposal container.
Spill Kit Information No specific spill kit required for this product.

Section 7. Handling and Storage

Handling Avoid breathing dust. Do not ingest.
Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes	Safety glasses.
Body	Lab coat.
Respiratory	Not applicable.
Hands	Not applicable.
Feet	Not applicable.

Protective Clothing (Pictograms)
Personal Protection in Case of a Large Spill Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name **Exposure Limits**
AGAROSE Not available.

Section 9. Physical and Chemical Properties

Odor	Not available.
Color	White to yellowish.
Physical State and Appearance	Solid. (Crystalline granules solid.)
Molecular Weight	Not available.
Molecular Formula	(C12H14O5(OH)4)n
pH	Not available.
Boiling/Condensation Point	Not available.
Melting/Freezing Point	Not available.
Specific Gravity	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Odor Threshold	Not available.
Evaporation Rate	Not available.
LogKow	Not available.
Solubility	Soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Reactive with oxidizing agents.
Rem/Incompatibility	Not available.
Hazardous Decomposition Products	Not available.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

RTECS Number:		Not available.
Toxicity	Agarose LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Acute Effects on Humans	Not available.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	Draize Test: Not available.	
Sensitization	Not available.	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.	
Toxicity to Reproductive System	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Not available.	

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.

Section 13. Disposal Considerations

EPA Waste Number	Not available.
Treatment	Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.
TDG Classification	Not available.
IMO/IMDG Classification	Not available.
ICAO/IATA Classification	Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable.

Section 15. Regulatory Information

U.S. Federal Regulations	TSCA 8(b) inventory: AGAROSE SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found. SARA 313 toxic chemical notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. Not controlled under WHMIS (Canada). CEPA DSL: AGAROSE This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.
WHMIS (Canada)	
International Regulations	
EINECS	AGAROSE 232-731-8
DSCL (EEC)	This product is not classified according to the EU regulations.
International Lists	Australia (NICNAS): AGAROSE Korea (TCCL): AGAROSE Philippines (RA6969): AGAROSE China: No products were found. No products were found. California prop. 65: No products were found.
State Regulations	

Section 16. Other Information

**Protection
Association
(U.S.A.)**

Health 0 0

Reactivity
Specific Hazard

Changed Since Last Revision

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Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.
