

None assigned



MATERIAL SAFETY DATA SHEET

Melt and Pour Agarose 1%
CAROLINA BIOLOGICAL

Revised: 12/09/07
Replaces: 10/07/07
Printed: 27/11/07

1. PRODUCT DESCRIPTION

Product Name: Melt-N-Pour Agarose 1%
Product Code(s): 21-7085
Size: 400 mL
Chemical Name: N/A
CAS Number: Product is a mixture, See section 2
Formula: N/A
Synonyms: None known
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components:

Agarose (CAS# 9012-36-6) 1%
Boric acid (CAS# 10043-35-3) 5.5%
Tris (hydroxymethyl) aminomethane (CAS# 77-86-1) 10.8%
Sodium hydroxide (CAS# 1310-73-2) .10%
Ethylenediaminetetraacetic acid (EDTA)disodium salt, 0.5M (CAS# 139-33-3) .7%

TLV and PEL units: Sodium hydroxide
ACGIH-TLV: Ceiling 2 mg/m3
OSHA-PEL: 2 mg/m3 (TWA)

3. HAZARD IDENTIFICATION

Emergency Overview: This product is not hazardous under normal use.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water.

Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm and quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point(Method Used): No information available

NFPA Rating: None assigned

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: No information available

Autoignition Temperature: No information available

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Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None expected

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store tightly closed at room temperature.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type): None needed under normal conditions of use.

Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
Special:	No
Other:	No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: No information available

Melting Point: No information available

Boiling Point: No information available

Vapor Pressure: No information available

Vapor Density(Air=1): No information available

Specific Gravity(H₂O=1): No information available

Percent Volatile by Volume: No information available

Evaporation Rate(H₂O=1): No information available

Solubility in Water: Complete

Appearance and Odor: Colorless liquid with no odor

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: No information available

Incompatibility(Materials to Avoid): Water-reactive materials

Hazardous Decomposition Products: No information available

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: Boric Acid orl-rat LD50: 2660mg/kg

Tris orl-rat LD50: 5900mg/kg

Sodium Hydroxide orl-rbt LDlo: 500mg/kg

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EDTA orl-rat LD50: 2000mg/kg
Effects of Overexposure:
Acute: See section 3
Chronic: Mutation and reproductive data cited for boric acid
and
ethylenediaminetetraacetic acid (EDTA) disodium salt.
Mutation data
cited for sodium hydroxide. The components of this mixture
are not
listed as causing cancer by IARC, NTP, or OSHA.
Conditions Aggravated by Overexposure: No information available
Target Organs: No information available
Primary Route(s) of Entry: Ingestion, skin

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable
Federal,
State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

N/A

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

	SARA EHS	SARA Sec. 313	CERCLA	RCRA
Product or	Sec. 302	Chemicals	Sec. 103	Sec.
Components	TPQ	Name Chemical	RQ lbs.	
		List Category		
261.33				

Agarose	No	No	No	No	No
Boric acid	No	No	No	No	No
Tris (hydroxymethyl)					
aminomethane	No	No	No	No	No
Sodium hydroxide	No	No	No	1000	No
Ethylenediamine-					
tetraacetic acid,					
disodium salt	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists

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CAS Number..Chemical Abstracts Service Number
CERCLA.....Comprehensive Environmental Response, Compensation, and
Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
mppcf.....million particles per cubic foot
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act