Material Safety Data Sheet

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:

Identification Of The Substance/Preparation:

Trade Name: SeaKem®, AT, HGS, SeaPure™ Type I and II, or I.D.NA® Agarose
Chemical Name: Agarose
Synonym: SeaKem® (LE, ME, HE, HEEO, HGT, HGT(P), GTG®, CB, Gold, LE Plus) Agaroses; AT, HGS, SeaPure™ Type I and II, or I.D.NA® Agarose; High melting temperature agarose; Standard agarose
Canada PIN: None

Use Of The Substance: SeaKem® LE, LE Plus, ME, HE, HEEO, HGT, HGT(P), GTG, SeaPure™ Type I and II ,and I.D.NA Agaroses are for Laboratory Use; the others are for R&D/experimental use only.

Company Identification:

Lonza Rockland, Inc.
191 Thomaston Street
Rockland, ME 04841-2994
USA
Business Telephone: (207) 594-3400
Emergency Telephone: 703-527-3887 (US: 800-424-9300)

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS:

Components	EINECS #	CAS #	Weight%	EU Classification
This product is not classified as dangerous				

SECTION 3 - HAZARDS IDENTIFICATION:

Emergency Overview: Odorless white, amorphous powder. This product has not been classified as dangerous.

Health Effects:

Inhalation: Not expected to present an inhalation hazard.
Skin: May cause mild irritation on prolonged or repeated contact in some individuals.
Eyes: Direct contact may cause transient eye irritation or discomfort in some individuals.
Ingestion: None known
Chronic Effects/Target Organ Effects: None known
Medical Conditions Aggravated By Exposure: None known

Environmental Effects: None known

SECTION 4 - FIRST AID MEASURES:

Inhalation: Follow standard care for a respiratory emergency as necessary. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Skin: Follow standard care for skin contact as needed. Immediately wash thoroughly with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms develop. Wash clothing and shoes before reuse, or discard in a manner which limits further exposure.
Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation persists.
Ingestion: If swallowed, get medical attention immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES:

Extinguishing Media: Dry chemical, fire-fighting foam, water spray, or carbon dioxide.
Special Exposure Hazards: The product is expected to burn under fire conditions generating toxic and irritating gases and smoke. Evacuate area and fight fire from safe distance.
Special Protective Equipment: Wear approved pressure-demand self-contained breathing apparatus and full protective gear. As with many organic powders, high dust concentrations may create a dust explosion hazard when exposed to sources of ignition. Powder handling systems may require additional protective measures such as explosion venting and inerting. Provide appropriate bonding and grounding. Refer to NFPA 69 and NFPA 77. Dust layer 205 C LEL = 0.40 oz/ft3. Dust cloud 440 C LEL = 0.40 oz/ft3.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Prevent skin/eye contact. Use personal protective equipment as needed. Isolate spill area, preventing entry by unauthorized persons.
Environmental Precautions: Minimize entry of material into sewers and drainage systems. Refer to permit discharge limitations if applicable.
Methods For Cleaning Up: Clean up spills immediately, observing precautions in the material safety data sheet and label. Minimize dust generation. Dispose into a chemical waste container.

SECTION 7 - HANDLING AND STORAGE:

Handling: Use with adequate ventilation as necessary or desired. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all MSDS/label precautions. Follow precautions for packaging that may product residues. Avoid contact with skin and eyes. Avoid raising dust.
Storage: Keep container closed when not in use. Store in cool, dry, well-ventilated location.
Specific Uses: For laboratory or R&D/experimental use only

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION:

Exposure Limit Values: OSHA PEL particulates not otherwise regulated = 15 mg/m3 as total dust; 5 mg/m3 as respirable fraction; ACGIH TLV particles not otherwise specified = 10 mg/m3 as total particles; 3 mg/m3 as inhalable particles
Exposure Controls: Use process enclosures, local exhaust ventilation, or other engineering controls as needed.
Respiratory Protection: Use an approved air-purifying respirator as needed. Consult with respirator manufacturer to determine respirator selection, use, and limitations.
Eye/Face Protection: Use safety glasses. Where contact with the eyes is likely, use chemical goggles.
Skin/Hand Protection: Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: …….. White amorphous powder
Odor: …… None
Flash Point: ……. Not available
Viscosity: …… Not available.
Solubility: …… 10% with difficulty
Density (water = 1): .. 1.49 gm/cm3
Partition Coefficient: . Not available.
Boiling Point: …….. Not available
Melting Point: ……. Not available
pH: ……..…… Not available
Other: ……. Not available.

SECTION 10 - STABILITY AND REACTIVITY:

Stability: Stable.
Conditions To Avoid: Avoid contact with acids and strong oxidizers.
Materials To Avoid: Acids and strong oxidizers.
Hazardous Decomposition Products: Oxides of carbon and smoke.

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SECTION 11 - TOXICOLOGICAL INFORMATION:
Not available

SECTION 12 - ECOLOGICAL INFORMATION:
Ecotoxicity: Not available
Mobility: Not available
Persistence And Degradability: Not available
Bioaccumulative Potential: Not available

SECTION 13 - DISPOSAL CONSIDERATIONS:
Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

SECTION 14 - TRANSPORT INFORMATION:
Not expected to be hazardous for transport

SECTION 15 - REGULATORY INFORMATION:
US Regulations:

This product meets the following SARA 311/312 hazard categories: none.
This product contains the following SARA 302 Extremely Hazardous Substances: none.
This product contains the following SARA 313 Toxic Chemicals: none.
This product contains the following CERCLA Hazardous Substances: none.
Components are listed in the TSCA inventory.

EU Regulations:

This preparation does not meet the dangerous preparations classification criteria under 1999/45/EC. Components are listed on EINECS or exempted from listing.

Canadian Regulations:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and it contains the information required by the CPR.
This product does not meet WHMIS criteria for classification as a hazardous material.
Components are listed on the DSL.

SECTION 16 - OTHER INFORMATION:
NFPA/HMIS Ratings: Health = 1; Fire = 1; Reactivity = 0; NFPA/Special = None
Other Information: None
MSDS Revisions: January 2009, Revision 9.0

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