



# American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: [www.aicma.com](http://www.aicma.com) Email: [info@aicma.com](mailto:info@aicma.com)

## MATERIAL SAFETY DATA SHEET

### AGAROSE BEADS

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
---	---	--

Date: August 2007

Synonyms: Agarose Beads, 4 or 6%, plain or cross-linked. Polysaccharides

CAS #: 9012-36-6

DOT Hazard Class: Not Regulated

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Agarose beads are a neutral, linear galactose polysaccharide in a microsphere form. It is an aqueous (agarose content specified by %) gel, with a molecular weight of > 120000 Daltons. As supplied, it contains 0.1% sodium azide as a preservative.

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not hazardous

POTENTIAL HEALTH EFFECTS: No exposure limits known, no significant hazard known on acute or chronic exposure.

CARCINOGENICITY: Not listed under OSHA, IARC, or NTP.

#### SECTION 4 - FIRST AID MEASURES

Inhalation: Not applicable

Skin Contact/Absorption: Non hazardous even in high exposures. Flush with water, if any irritation occurs and persists, obtain medical attention

Eye Contact: Non hazardous; may cause irritation in high exposures. Flush with water for at least 15 minutes. If irritation occurs and persists, obtain medical attention.

Ingestion: If abdominal discomfort occurs, obtain medical attention.

---

## **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures: Use fire fighting procedure that is appropriate to treat surrounding fire.

Unusual Fire Explosion Hazard: None

Auto Ignition Temperature: Not available

---

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spilled liquid with sand or earth. Place in a disposal container. No special disposal methods are suggested. Avoid runoff into storm sewers and ditches which lead to waterways.

---

## **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes. Use normal personal hygiene and housekeeping. Store in cool dry area for product quality assurance. Do not freeze, or heat to greater than 85-95°C to assure product viability.

---

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Not applicable.

VENTILATION REQUIREMENTS: No inhalation route.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles.

WORK, HYGIENIC PRACTICES: As required to protect skin and eyes, safety showers and/or eye wash should be available. Do not leave food or smoke in work area..

EXPOSURE LIMITS: None Established. Agarose has very low toxicity, and sodium azide is toxic by ingestion at very high levels.

---

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

Appearance: White paste formed by gel microspheres. Slight marine odor.

Boiling Point: 100°C

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H2O=1): Approximately 1.0 g/cm<sup>3</sup>

Bulk Density: Approximately 1.0 g/cm<sup>3</sup>

Percent Volatile by Volume (%): Not applicable

Melting Point: Approx. 85-95°C. Not applicable for cross-linked type beads.

Evaporation Rate (Butyl Acetate=1): Rate as applicable for water content.

Solubility in Water: Not soluble in cold water

pH: 5.5- 8.0

---

## **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None

KEEP AWAY FROM: Not Applicable

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Not Available

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

Not available

---

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

---

**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME:.....Not Regulated

---

**SECTION 15 - REGULATORY INFORMATION**

TSCA (TOXIC SUBSTANCE CONTROL ACT):  
State: This product is not listed on the TSCA Inventory.

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Unlisted

Section 313 Toxic Chemicals: Unlisted

Section 311/312 Not Considered a Hazard

---

**SECTION 16 - OTHER INFORMATION**

Reason for Issue: Changed Date

**This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.**

---