



# MATERIAL SAFETY DATA SHEET

## PLAIN & CROSSLINKED Agarose Bulk Resins

### PRODUCT IDENTIFICATION

PRODUCT NAME Plain & Crosslinked agarose beads (all types)  
 MANUFACTURER Agarose Bead Technologies, S.L. · C/ López Bravo, 98 · 09001 Burgos SPAIN · Phone (+34) 947 29 89 67

### COMPOSITION- INFORMATION ABOUT INGREDIENTS

**GENERAL DESCRIPTION:** Aqueous slurry of agarose gel microspheres of label-specified diameter. This agarose concentration may be from 1 - 10%. It is mainly used for analytical applications such as protein separations.

COMPONENT	CAS No.	Wt. % of PRODUCT
Water	7732-18-5	64 - 99%
Agarose Gel	9012-36-6	2 - 10%
Denatured Ethanol	64-17-5	0 - 20%*

\*The slurry contains ethanol as an added preservative.

### HAZARDS IDENTIFICATION

Not applicable.

NFPA RATINGS (Scale 0 - 4): Health = 0; Fire = 0; Reactivity = 0.

### HEALTH HAZARDS DETAIL

**General:** No special measures are needed.

**Skin:** wash affected area with water.

**Eyes:** flush with water and seek medical advice.

If inhaled, cough particulate matter as much as possible and seek medical advice.

If swallowed, induce vomiting and seek medical attention.

### FIRE FIGHTING MEASURES

High water content of product (> 80 %) greatly reduces risk of product ever burning unless completely dried first

#### Extinguishing media

In the unlikely event of product burning, any CO<sub>2</sub>, extinguishing powder or water spray extinguisher can be used.

#### Special Fire fighting procedures

No special protective clothing is needed.

### ACCIDENT RELEASE MEASURES

No special personnel or environmental protection measures are required. Clean -up spilled material with liquid absorbent materials such as towels, sawdust or universal binders. Use broom & dustpan, shovel or water vacuum to remove material. No dangerous substances are released.

### HANDLING AND STORAGE

**Handling:** No special handling.

**Storage:** From refrigerated to normal ambient temperature.

### EXPOSURE CONTROLS AND PERSONAL PROTECTIONS:

This product does not contain any materials with critical values which must be monitored in the work place. In accordance with good laboratory practice, safety glasses or goggles should be utilized when using this product. Water repellent gloves are recommended if in prolonged contact with the product.

### PHYSICAL AND CHEMICAL PROPERTIES

The product is an inert, 50-80 % solids suspension of a microparticulated, starch like gel.

**Color:** Translucent white.

**Odor:** Slight odor of ethanol preservative.

**Agarose gel melting point:** Not available.

**Water ( Interstitial Fluid ) Boiling Point:** 100°C.

**Flash Point:** 38° -43°C (closed cup). Classification R10 (flammable).

**Auto-Igniting:** Not applicable.

**Explosion Danger:** Minimal.

**Vapour Pressure:** Same as water at the same temperature as product.

**Density:** 1.05-1.03 g/ml.

**Solubility in Water:** Microparticle solids are insoluble unless heated above 90°C.

**Organic Solvents:** Contain Denatured Ethanol 0-20%.

**Water:** 64- 99%.

**Solids Content:** 1-10%.

### STABILITY AND REACTIVITY

**Thermal decomposition conditions to be avoided:** Heating above 90°C will dissolve gel microparticles (plain agarose beads).

**Dangerous reactions or products of decomposition:** None.

### TOXICOLOGICAL INFORMATION

**Acute toxicity:** Non detected.

This product is not subject to the General EU Classification Guidelines for Hazardous Preparations. This product does not produce harmful effects when used as directed and intended.

### ECOLOGICAL INFORMATION

This product is not known to be hazardous to water environments.

### DISPOSAL CONSIDERATIONS

The solids contents can be discarded like any rubbish or solid waste. The diluted liquid form of this product can be discarded down drains. Uncleaned, residual packaging or bottles can be discarded with the routine rubbish or solids wastes.

### TRANSPORT INFORMATION

**Land Transport across Border:** ADR/RID

**Maritime Transport:** IMDG – (not a marine pollutant)

**Air transport:** ICAO – TI and IATA – DGR.

### REGULATORY INFORMATION

None of the contents are listed as extremely hazardous substances.

**TSCA (Toxic Substances Control Act):**

Contents: Water-7732-18-5; Agarose-9012-36-6; Denatured Ethanol (0-20 %).

**Marking according to EU Guidelines:** None Required.