#9863 MSDS

Material Safety Data Sheet (MSDS) for Protein A Agarose Beads

Cell Signaling TECHNOLOGY®

11/2011

I. Identification:

Product name: Protein A Agarose Beads
Product Catalog: 9863
Substance/Preparation: Preparation
Identified Use: This product is for *in vivo* laboratory Research Use Only and is not intended for use in humans. It is not intended for Diagnostic or therapeutic use.
Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923 USA
978-867-2300 TEL
978-867-2400 FAX
978-578-6737 EMERGENCY TEL

II. Composition/Information on Ingredients:

Component:	CAS#	% Volume	OSHA
Ethanol	64-17-5	17.5 – 18.5%	TWA: 1000ppm 8 hrs
Cross Linked agarose	9012-36-6	50%	Not established

III. Hazard Identification:

EMERGENCY OVERVIEW
Combustible liquid. Causes eye, skin and respiratory tract irriation. Can cause target organ damage.
OSHA: Hazardous Material

NFPA:	Health hazard:	2	Temporary or minor injury may occur.
	Flammability:	2	Will not ignite at room temperature.
	Reactivity	0	Stable.
Risk Phrases:		R 10	Flammable.
		R22	Harmful if swallowed.
		S16	Keep away from sources of ignition. No smoking.
		S20	Do not eat or drink when using.

IV. First Aid Measures:

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, get medical attention.
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Get medical attention or call Poison Control Center for most current information.
Skin exposure: In case of contact, immediately wash skin with soap and water for at least 15 minutes. Remove contaminated clothing. Wash clothing before reuse.
Eye exposure: In case of contact with eyes, immediately flush eyes with water for at least 15 minutes. Get medical attention.

V. Fire Fighting Measures:

Warning: Combustible Liquid. Containers may burst or explode if heated. Move containers away from heat or fire if can be done without risk.
Flash Point: 100°F / 37.8°C (closed cup)
Autoignition Temperature: No data available.
Explosion: No data available.
Fire extinguishing media: Water spray, dry chemical, alcohol foam, or carbon dioxide. Do not use water jet.
Firefighting: Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

VI. Accidental Release Measures:

Wear appropriate personal protective equipment. Avoid contact with spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Eliminate any sparks, flames or ignition sources from the spill area. Control spillage with non-flammable absorbent material.

VII. Handling And Storage:

Store in tightly closed container at 4°C.
Keep and use in a well ventilated area. Keep away from heat, sparks, and flame. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling.

VIII. Exposure Controls/Personal :

Ventilation System: A system of local and/or general exhaust is recommended.
Skin Protection: Wear compatible chemical resistant gloves and protective clothing, such as a lab coat.
Eye protection: Wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

IX. Physical And Chemical Properties:

Appearance:	Colorless liquid with white suspended solids. Solids may settle during storage.
Odor:	Alcohol
Flash Point:	100°F (37.8°C)
% Volatile:	19% (w/w)
VOC:	190 g/L

X. Stability and Reactivity:

Stability: Stable under normal conditions.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition: No data available.
Conditions to avoid: Keep away from oxidizing materials. Keep away from open flames, sparks, heat.

XI. Toxicological Information:

Caution: Preparation not yet thoroughly investigated.

Ethanol:	Result:	Species:	Dose:
	LDt50 intra-arterial	Rat	11 mg/kg
	LD50 Intraperitoneal	Rat	3600 µg/kg
	LD50 Intravenous	Rat	1440 mg/kg
	LD50 Oral	Rat	7060 mg/kg

Chronic Effects: Contains material that can cause target organ damage.
Target Organs: Blood, kidneys, reproductive system, liver, respiratory tract, skin, CNS, eye.

XII. Ecological Information: Aquatic Ecotoxitiy (Ethanol):

Test:	Result:	Species:	Exposure:
Intoxication	Acute EC>100mg/L	Daphnia	48 hrs
Intoxication	Acute EC50 9.3 mg/L	Daphnia	48 hrs
Physiology	Acute EC50 2 mg/	Daphnia	48 hrs
Mortality	Acute LC50 1300mg/L	Fish	96 hrs
Mortality	Acute LC50>100mg/L	Daphnia	96 hrs
Mortality	Acute LC50>100mg/L	Fish	96 hrs

XIII. Disposal Considerations: Dispose of in accordance with federal, state, local environmental regulations.

XIV. Transport Information:

IATA: Not classified: IATA Special Provision A58 – Aqueous solutions containing 24% or less alcohol by volume not subject to these regulations.
DOT: Non Hazardous. Not subject to the requirement of 49CFR per section 173.150(e).

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XV. Regulatory Information:

OSHA Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

US Federal Regulations:

TSCA 8b: All components listed or exempted.
SARA 302/304/311 hazardous chemicals: ETHANOL .
Clean Water Act (CWA) : No products were found.
Clean Air Act: No products were found.

State Regulations: This product does not contain any substances regulated by State Right to Know regulations.

EU Risk Phrases:	R 10	Flammable.
	R22	Harmful if swallowed.
	S16	Keep away from sources of ignition. No smoking.
	S20	Do not eat or drink when using.

International:
Australia inventory (AICS): All components listed or exempted.
China inventory (IECSC): All components listed or exempted.
Korea inventory (KECI): All components listed or exempted.
Philippines inventory (PICCS): All components listed or exempted.
Japan inventory (ENCS): All components listed or exempted.

XVI. Other Information:

This compound is sold only for *in vitro* laboratory research use only. It is not for use in humans. It is not intended for use as diagnostic or clinical therapeutic. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.