

SAFETY DATA SHEET (SDS): According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

# **SECTION 1. Identification**

### **Product identifier**

Product No. 9863

Product name Protein A Agarose Beads

**Description** Protein A Agarose Beads are an affinity matrix for the small-scale isolation of

immunocomplexes from immunoprecipitations (IP assays).

Other means of identification 9863MC, 9863P, 9863S

### Recommended use of the chemical and restrictions on use

**Identified uses**This product is intended for research purposes only.

**Uses advised against**This product is not intended for use in diagnostic procedures or therapeutics.

This product is not intended for use in humans or animals.

Manufacturer, importer, supplier

Manufacturer address Cell Signaling Technology, Inc.

3 Trask Lane

Danvers, MA 01923 TEL: +1 978 867 2300 FAX: +1 978 867 2400 www.cellsignal.com support@cellsignal.com

Company phone number 978-867-2300

Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

# **SECTION 2. Hazard(s) identification**

#### Classification

**Email address** 

Website

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2B
Flammable liquids	Category 3

### GHS Label elements, including precautionary statements



#### Signal Word

Warning

## Hazard statement(s)

Causes eye irritation Flammable liquid and vapor

#### **Precautionary Statement(s)**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

## Supplementary Hazard Information

Hazards not otherwise classified (HNOC) None

# **SECTION 3. Composition/information on ingredients**

Formula CH<sub>3</sub>CH<sub>2</sub>OH Chemical nature Ethanol solution.

Synonyms Ethyl alcohol; Alcohol, ethyl; Aethanol; Ethylalcohol; Etylowy alkohol

Chemical Name	CAS No.	Weight %
ethanol	64-17-5	10 - 30

## **SECTION 4. First-aid measures**

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing.

Skin contact Immediate medical attention is not required. Wash off immediately with soap and plenty of

water removing all contaminated clothes and shoes. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors. Immediate medical attention is

not required. If symptoms persist, call a physician. IF INHALED: Remove to fresh air and

keep at rest in a position comfortable for breathing.

Ingestion Clean mouth with water. Drink plenty of water. Do not induce vomiting without medical

advice. Never give anything by mouth to an unconscious person. Consult a physician. If

swallowed, do not induce vomiting - seek medical advice.

# Most important symptoms and effects, both acute and delayed

No information or data specific to the product on this toxicological (health) effect is available.

### Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

#### Advice for emergency responders

Inhalation

General advice If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

**Protection of First-aiders**Use personal protective equipment.

# **SECTION 5. Fire-fighting measures**

#### **Extinguishing media**

**Suitable Extinguishing Media** Cool containers / tanks with water spray. Use:. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water

spray. Alcohol-resistant foam.

Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

#### **Explosion Data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### **SECTION 6. Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Remove all sources of ignition. Take precautionary measures against static discharges.

Use personal protective equipment. Heat, flames and sparks. Ensure adequate ventilation.

Other information No information available.

#### **Environmental precautions**

Do not flush into surface water or sanitary sewer system. Prevention of fire and explosion. A vapor suppressing foam may be used to reduce vapors. Try to prevent the material from entering drains or water courses. Do not allow material to contaminate ground water system. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

## Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled Methods for cleaning up

containers. Take precautionary measures against static discharges.

# **SECTION 7. Handling and storage**

#### Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment. Prevent the formation of vapors, mists and aerosols. There is a hazard associated with rags, paper or any other material used to remove spills which become soaked with product. Avoid accumulation of these: they are to be disposed off safely after use. Avoid static electricity build up with connection to earth.

### Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

Packaging material No information available.

Incompatible products Reacts slowly with calcium hypochlorite, silver oxide and ammonia. Reacts violently with

strong oxidants such as nitric acid, silver nitrate, mercuric nitrate or magnesium perchlorate.

# **SECTION 8. Exposure controls/personal protection**

# **Control parameters**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
ethanol	STEL 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 mg/m <sup>3</sup>	-

(vacated) = Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

## Appropriate engineering controls

Showers, eyewash stations, and ventilation systems.

#### Individual protection measures, such as personal protective equipment

Personal protective equipment (PPE) needs to be selected depending on the implemented engineering controls, frequency/duration of work activities and the concentrations of the hazardous substance.

Eye/face protection Tightly fitting safety goggles. Skin and body protection Wear protective gloves/clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area Hygiene measures

and clothing.

# **SECTION 9. Physical and chemical properties**

## Information on basic physical and chemical properties

Liquid Physical state **Appearance** Suspension Alcohol Odor

Clear with white suspended solids Color

**Odor Threshold** No information available рΗ No information available Melting point/freezing point No information available Initial boiling point and boiling No information available

range

37.8 °C / 100 °F Flash point **Evaporation rate** No information available Flammability (solid, gas) No information available **Upper flammability limit** No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available Relative density No information available Solubility No information available Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available

**Autoignition temperature** No information available **Decomposition temperature** No information available No information available **Explosive properties** No information available Oxidizing properties **VOC** content No information available **Viscosity** No information available **Density** No information available

# **SECTION 10. Stability and reactivity**

#### Reactivity

Reacts with incompatible materials causing a fire and explosioin hazard.

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

**Hazardous reactions** Vapors may form explosive mixtures with air. Exothermic reaction possible with strong

oxidizers.

Hazardous polymerization None under normal processing.

### **Conditions to Avoid**

Heat, flames and sparks. Heating in air.

## **Incompatible Materials**

Reacts slowly with calcium hypochlorite, silver oxide and ammonia. Reacts violently with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate or magnesium perchlorate.

# **Hazardous Decomposition Products**

None known based on information supplied.

# **SECTION 11. Toxicological information**

#### Information on likely routes of exposure

Inhalation There is no data available for this product. Eye contact Expected to be an irritant based on components. Skin contact There is no data available for this product. Ingestion There is no data available for this product.

### Information on toxicological effects

This material should only be handled by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals. It should be borne in mind that the toxocological and physiological properties of this compound is not well defined.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ethanol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
64-17-5			

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Symptoms** Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing,

> reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting.

Corrosivity No information available. Sensitization No information available. **Mutagenic effects** No information available.

This product is not intended for human consumption. Therefore the IARC, NTP and OSHA Carcinogenicity

carcinogenic classification is not relevant for this product.

Chemical Name	IARC	NTP	OSHA
ethanol	1 (Alcohol Drinking)	Known (Alcoholic Beverage	X (Alcoholic Beverage
64-17-5		Consumption)	Consumption)

# Legend:

IARC: (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

NTP: (National Toxicity Program) Known - Known Carcinogen OSHA: (Occupational Safety & Health Administration) X - Present

No information available. Reproductive toxicity **Developmental Toxicity** No information available. **Teratogenicity** No information available. No information available. STOT - single exposure STOT - repeated exposure No information available.

**Target Organ Effects** Blood, Reproductive system, Central nervous system (CNS), Eyes, Respiratory system,

Liver, Skin.

**Neurological effects** No information available. **Aspiration Hazard** No information available. **Endocrine Disruptor Information** No information available.

# **SECTION 12. Ecological information**

#### **Ecotoxicity**

50% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aguatic invertebrates
ethanol 64-17-5	-	LC50 12.0 - 16.0 mL/L (Oncorhynchus mykiss) 96 h LC50 13400 - 15100 mg/L (Pimephales promelas) 96 h LC50 100 mg/L (Pimephales promelas) 96 h	LC50 9268 - 14221 mg/L (Daphnia magna) 48 h EC50 10800 mg/L (Daphnia magna) 24 h EC50 2 mg/L (Daphnia magna) 48 h

No information available. Persistence and degradability **Bioaccumulation** Not likely to bioaccumulate.

**Mobility** Will likely be mobile in the environment due to its water solubility

Chemical Name	Octanol-Water Partition Coefficient
ethanol 64-17-5	-0.32

# Other adverse effects

No information available.

# **SECTION 13. Disposal considerations**

#### **Waste Disposal Methods**

Dispose of in accordance with all applicable national environmental laws and regulations.

### **Disposal considerations**

Do not empty into drains; dispose of this material and its container in a safe way.

US EPA Waste Number D001

California Waste Status

This product contains one or more substances that are listed with the State of California as

a hazardous waste

Chemical Name	California Hazardous Waste Status
ethanol	Toxic
64-17-5	Ignitable

# **SECTOIN 14. Transport information**

This material is not subject to regulation as a hazardous material for shipping.

# **SECTION 15. Regulatory information**

# All of the components in the product are on the following Inventory lists:

TSCA Complies
DSL Complies
NDSL Complies

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

## **Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **California Proposition 65**

Ethanol is only a considered a Proposition 65 cancer hazard when it is ingested as a beverage. Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as a beverage.

Chemical Name	California Prop. 65
ethanol	Carcinogen
64-17-5	Developmental

### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ethanol	Listed	Listed	Listed
64-17-5			

#### **U.S. EPA Label Information**

This product does not contain any substances regulated as pesticides.

# **SECTION 16. Other information**

**Issuing Date: 2014-02-12 Revision Date: 2014-02-12** 

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**