



Safety Data Sheet (SDS) According to the OSHA Hazard Communication Standard 29 CFR 1910.1200

Issuing Date: 2016-02-29 Revision Date: 2016-02-29 Version: 1

**SECTION 1. Identification**

**Product Identifier**

Product number 37478  
Product name Protein G Agarose Beads

**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.  
Manufacturer, importer, supplier This product is not intended for use in humans or animals.

Manufacturer address Cell Signaling Technology, Inc.  
3 Trask Lane  
Danvers, MA 01923  
United States  
TEL: +1 978 867 2300  
FAX: +1 978 867 2400

Website www.cellsignal.com  
Email address support@cellsignal.com  
Emergency telephone number In case of emergency call CHEMTREC 1-800-424-9300

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

**Classification**

This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**GHS Label elements, including precautionary statements**

Signal Word Not classified

Hazard statement(s) None.

Precautionary Statement(s) None.

**Supplementary Hazard Information**

Contact with eyes may cause irritation  
Hazards not otherwise classified (HNOC) Not applicable.

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

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Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

Methods for containment Prevent further leakage or spillage if safe to do so.  
Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**SECTION 7. Handling and storage**

**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Refer to Section 8. Remove and wash contaminated clothing before re-use.

**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 None known based on information supplied.

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

**Control parameters**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>

**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 If splashes are likely to occur, wear: Tightly fitting safety goggles.  
Skin and body protection Wear protective gloves/clothing.  
Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved 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.  
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. Physical and chemical properties**

**Information on basic physical and chemical properties**

Physical state Thick slurry  
Appearance No information available  
Odor No information available  
Color No information available  
Odor Threshold No information available  
Property Values  
pH No information available  
Remarks Method

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Chemical Name	CAS No	Weight %
Ethanol	64-17-5	20

**SECTION 4. First-aid measures**

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention if irritation persists.  
Skin contact Wash skin with soap and water. Remove and wash contaminated clothing before re-use.  
Inhalation IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur.  
Ingestion Clean mouth with water and afterwards drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Treat symptomatically.

**Advice for emergency responders**

General advice For further assistance, contact your local Poison Control Center.  
Protection of first-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**SECTION 5. Fire-fighting measures**

**Extinguishing media**

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO<sub>2</sub>), Alcohol-resistant foam. Dry chemical.  
Unsuitable Extinguishing Media CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

**Explosion Data**

Sensitivity to Mechanical Impact None.  
Sensitivity to Static Discharge None.

**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 Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing.  
Other information No information available.

**Environmental precautions**

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Melting point/freezing point	No information available
Initial boiling point and boiling range	No information available
Flash point	> 60 °C / > 140 °F
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/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Other information	No information available
Softening point	No information available
Molecular Weight	No information available
VOC content	No information available.
Density	No information available.
Bulk Density VALUE	No information available.

**SECTION 10. Stability and reactivity**

**Reactivity**

No information available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Hazardous reactions None under normal processing.  
Hazardous polymerization None under normal processing.

**Conditions to Avoid**

No information available.  
Incompatible Materials  
None known based on information supplied.  
Hazardous Decomposition Products  
Carbon oxides (COx).

**SECTION 11. Toxicological information**

**Information on likely routes of exposure**

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.  
Eye contact Avoid contact with eyes. Contact with eyes may cause irritation.  
Skin contact Avoid contact with skin. Prolonged or repeated contact may dry skin and cause irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.

**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 toxicological 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

ATEmix (oral) 35300 mg/kg

ATEmix (inhalation-vapor) 623.5 mg/l

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

**Symptoms** Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
**Skin corrosion/irritation** Not classified.  
**Serious eye damage/eye irritation** Not classified.  
**Sensitization** No information available.  
**Mutagenic effects** No information available.  
**Carcinogenicity** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage

Chemical Name	IARC	NTP	OSHA
Ethanol		Known	X

**Reproductive toxicity** Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Neurological effects** No information available.

**Aspiration Hazard** No information available.

**SECTION 12. Ecological information**

**Ecotoxicity**

Product does not present an aquatic toxicity hazard based on known or supplied information.

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

Chemical Name	Octanol-Water Partition Coefficient
Ethanol	-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.

**U.S. Drug Enforcement Administration Information**

This product does not contain any substances regulated under the DEA.

**SECTION 16. Other information**

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**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

**SECTION 14. Transport information**

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

**SECTION 15. Regulatory information**

**North American Inventory Listing**

Chemical Name	TSCA 8(b)	TSCA 12(b)	DSL	NDSL
Ethanol	Listed	Not Listed	Listed	Not Listed

**Canadian Workplace Hazardous Materials Information System (WHMIS) Classification**

This product does not meet the criteria for classification under the Hazardous Products Act.

**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 Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**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**

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

Chemical Name	California Prop. 65
Ethanol	Carcinogen Developmental

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethanol	Listed	Listed	Listed

**U.S. FIFRA Label Information**

This product does not contain any substances regulated as pesticides.

**US Commerce Department - Export Administration Regulations Information**

This product does not contain any substances regulated under the Chemical Weapons Convention (CWC).