



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

**Issuing Date:** 2016-03-09

**Revision Date:** 2019-01-24

**Version:** 2

## SECTION 1. Identification

### Product identifier

**Product No** 70024  
**Product name** Protein G Magnetic Beads

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

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

### Manufacturer, importer, supplier

**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

May produce an allergic reaction.

#### **Hazards not otherwise classified (HNOC)**

Not applicable.

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

| Chemical name | CAS No.    | Weight-% |
|---------------|------------|----------|
| sodium azide  | 26628-22-8 | <0.1     |

**SECTION 4. First-aid measures**

|                     |                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention if irritation persists. |
| <b>Skin contact</b> | Wash skin with soap and water.                                                                                                                 |
| <b>Inhalation</b>   | IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms occur. |
| <b>Ingestion</b>    | 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**

Contains an animal derived biological. May produce an allergic reaction in susceptible individuals. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

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

Treat symptomatically.

**Advice for emergency responders**

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

**SECTION 5. Fire-fighting measures****Extinguishing media**

|                                       |                                                                                                         |
|---------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Unsuitable Extinguishing Media</b> | None.                                                                                                   |

**Specific hazards arising from the chemical**

No information available.

**Explosion Data**

|                                         |       |
|-----------------------------------------|-------|
| <b>Sensitivity to Mechanical Impact</b> | None. |
| <b>Sensitivity to Static Discharge</b>  | 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**

|                                    |                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>For non-emergency personnel</b> | Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal protection see section 8. |
| <b>Other information</b>           | No information available.                                                                                             |

**Environmental precautions**

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**

|                                |                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------|
| <b>Methods for containment</b> | Prevent further leakage or spillage if safe to do so.                                       |
| <b>Methods for cleaning up</b> | 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. Wear personal protective equipment. Refer to Section 8. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

**Conditions for safe storage, including any incompatibilities**

|                                              |                                                                          |
|----------------------------------------------|--------------------------------------------------------------------------|
| <b>Technical measures/Storage conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| <b>Packaging material</b>                    | No information available.                                                |
| <b>Incompatible products</b>                 | Strong oxidizing agents, Strong acids.                                   |

## SECTION 8. Exposure controls/personal protection

**Control parameters**

| Chemical name | ACGIH TLV                                            | OSHA PEL | NIOSH REL                                          |
|---------------|------------------------------------------------------|----------|----------------------------------------------------|
| sodium azide  | Ceiling: 0.29 mg/m <sup>3</sup><br>Ceiling: 0.11 ppm | -        | Ceiling: 0.1 ppm<br>Ceiling: 0.3 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.

|                                 |                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>      | If splashes are likely to occur, wear: Tightly fitting safety goggles                                                                                                                                                                                                                                                   |
| <b>Skin and body protection</b> | Wear protective gloves/clothing.                                                                                                                                                                                                                                                                                        |
| <b>Respiratory protection</b>   | 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. |
| <b>Hygiene measures</b>         | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                                                                                                  |

## SECTION 9. Physical and chemical properties

**Information on basic physical and chemical properties**

|                       |        |              |       |
|-----------------------|--------|--------------|-------|
| <b>Physical state</b> | Liquid | <b>Color</b> | Brown |
| <b>Appearance</b>     | Clear  |              |       |

|                                         |                           |                       |                          |
|-----------------------------------------|---------------------------|-----------------------|--------------------------|
| <b>Odor</b>                             | No information available  | <b>Odor Threshold</b> | No information available |
| <b><u>Property</u></b>                  | <b><u>Values</u></b>      | <b><u>Remarks</u></b> | <b><u>Method</u></b>     |
| pH                                      | No information available  |                       |                          |
| Melting point/freezing point            |                           |                       |                          |
| Initial boiling point and boiling range | 100 °C / 212 °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                              | dispersible               |                       |                          |
| 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  |                       |                          |
| <b><u>Other information</u></b>         |                           |                       |                          |
| Softening point                         | No information available  |                       |                          |
| Molecular Weight                        | No information available  |                       |                          |
| VOC content                             | No information available  |                       |                          |
| Liquid Density                          | No information available  |                       |                          |
| Bulk density                            | No information available  |                       |                          |

## SECTION 10. Stability and reactivity

### Reactivity

No information available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

|                                 |                               |
|---------------------------------|-------------------------------|
| <b>Hazardous reactions</b>      | None under normal processing. |
| <b>Hazardous polymerization</b> | None under normal processing. |

### Conditions to Avoid

Extremes of temperature and direct sunlight. Over a period of time, sodium azide may react with copper, lead, brass, or solder in plumbing systems to form an accumulation of the HIGHLY EXPLOSIVE compounds of lead azide & copper azide.

### Incompatible Materials

Strong oxidizing agents. Strong acids.

### Hazardous Decomposition Products

Nitrogen oxides (NOx).

## SECTION 11. Toxicological information

**Information on likely routes of exposure**

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Avoid breathing vapors or mists. May cause irritation of respiratory tract.     |
| <b>Eye contact</b>  | Avoid contact with eyes. May cause slight irritation.                           |
| <b>Skin contact</b> | Avoid contact with skin.                                                        |
| <b>Ingestion</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

**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 |
|---------------|------------------|------------------------------------------|-----------------|
| sodium azide  | = 27 mg/kg (Rat) | = 20 mg/kg ( Rabbit ) = 50 mg/kg ( Rat ) | -               |

|                                      |                   |
|--------------------------------------|-------------------|
| <b>ATEmix (oral)</b>                 | >5000 mg/kg (ATE) |
| <b>ATEmix (dermal)</b>               | >5000 mg/kg (ATE) |
| <b>ATEmix (inhalation-dust/mist)</b> | >5 mg/l (ATE)     |

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

|                                 |                                                                                                                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b>                 | Contains an animal derived biological. May produce an allergic reaction in susceptible individuals. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. |
| <b>Sensitization</b>            | No information available.                                                                                                                                                                                                                                                                   |
| <b>Mutagenic effects</b>        | No information available.                                                                                                                                                                                                                                                                   |
| <b>Carcinogenicity</b>          | No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP, or OSHA.                                                                                                                    |
| <b>Reproductive toxicity</b>    | No information available.                                                                                                                                                                                                                                                                   |
| <b>STOT - single exposure</b>   | No information available.                                                                                                                                                                                                                                                                   |
| <b>STOT - repeated exposure</b> | No information available.                                                                                                                                                                                                                                                                   |
| <b>Neurological effects</b>     | No information available.                                                                                                                                                                                                                                                                   |
| <b>Aspiration Hazard</b>        | No information available.                                                                                                                                                                                                                                                                   |

**SECTION 12. Ecological information****Ecotoxicity**

| Chemical name | Toxicity to algae                                           | Toxicity to fish                                                                                                                  | Toxicity to daphnia and other aquatic invertebrates |
|---------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| sodium azide  | EC50 0.35 mg/L<br>(Pseudokirchneriella subcapitata)<br>96 h | LC50 0.8 mg/L (Oncorhynchus mykiss) 96 h<br>LC50 5.46 mg/L (Pimephales promelas) 96 h<br>LC50 0.7 mg/L (Lepomis macrochirus) 96 h | LC100 1 mg/L (Orconectes rusticus)<br>96 h          |

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Persistence and degradability</b> | No information available. |
| <b>Bioaccumulation</b>               | No information available. |
| <b>Mobility</b>                      | No information available  |

**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.

**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       |
|---------------|-----------|------------|--------|------------|
| sodium azide  | 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.

| Chemical name | CAS No.    | SARA 313 - Threshold Values % |
|---------------|------------|-------------------------------|
| sodium azide  | 26628-22-8 | 1.0                           |

**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**

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs |
|---------------|--------------------------|------------------------------------|
| sodium azide  | 1000 lb                  | 1000 lb                            |

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| sodium azide  | 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).

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

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

|                                      |
|--------------------------------------|
| <b>SECTION 16. Other information</b> |
|--------------------------------------|

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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