

SPEAR ULTRADETECT REACTION KIT

Safety Data Sheet

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Revision Date: 23MAY 2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

1.2 Product Form: Mixture

Product Name: **SPEAR ULTRADETECT REACTION KIT**

Product Number: **90024**

Brand: SPEAR BIO

1.3 Relevant identified uses of the substance or mixture and uses advised against Identified uses:

Components: qPCR Enzyme (contains <0.05% Sodium azide), Reaction Diluent, qPCR Diluent (contains <0.05% ProClin 950), Reaction Enzyme, Sealing Oil, qPCR Control, qPCR Control Diluent (contains <0.05% ProClin 950).

- GHS product identifier: **SPEAR ULTRADETECT REACTION KIT**
- Application of the substance / the preparation: For Research Use Only
- Manufacturer/Supplier:

SPEAR BIO, INC.

SUITE 510

100 TRADECENTER DR.

WOBURN, MA 01801,

UNITED STATES

Telephone: +1 781-937-5245

Fax: +1 781-750-0631

- For product related questions call: 1-800-343-7475 or 1-612-379-2956, In Europe call: +44(0)1235-529449.
- Emergency information: In case of a chemical emergency, spill, leak, fire, or accident, call CHEMTREC at 1-800-424-9300 (USA or Canada). Outside USA or Canada: +1 703-527-3887 (collect calls accepted). 9AM to 5PM, Monday to Friday

SECTION 2: Hazards identification

2.1 Classification: This substance does not meet the classification criteria to be listed as a hazardous material according to the Regulation (EC) No. 1272/2008 (CLP/EU-GHS), 29 CFR 1910.1200 (OSHA): Contains Sodium Azide (less than 0.1%) – not a hazardous substance at this concentration.

- Pictogram: Not applicable.
- Signal Word: Not applicable.
- Hazard statements: Not applicable.
- Precautionary statements: Not applicable.
- Response: Not applicable.
- Hazard Symbol / R-Phrase / S-Phrase: Not applicable.
- Label Elements: Not applicable.
- Special Hazards: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Substances

Contains Sodium Azide, ProClin 950.

Contains	CAS No.	EC-No.	Index-No.	Content
Sodium Azide	26628-22-8	247-852-1	011-004-00-7	<0.1% Not hazardous at this concentration
ProClin 950	N/A	N/A	N/A	<0.1% Not hazardous at this concentration

The listing of Proclin 950 as a hazardous component is attributed to the percent of 2-methyl-4-isothiazolin-3-one, CAS 2682-20-4, present in Proclin 950.

3.2 Mixture

Within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200]: this mixture is not considered a hazard when used in a manner which is consistent with the labeled directions.

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution for 15 minutes. Rinse contact lenses if present. Obtain medical attention if irritation develops.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Combustible.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal.

6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking

and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight,

extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hazardous reactions will not occur under normal conditions.

7.3. Specific End Use(s)

Laboratory chemicals

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier,

importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), Canadian provincial

governments, or the Mexican government.

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations

are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance : Not available

Odor : Not available

Odor Threshold : Not available

pH : Not available

Evaporation Rate : Not available

Melting Point : Not available

Freezing Point : Not available

Boiling Point : Not available

Flash Point : Not available

Auto-ignition Temperature : Not available

Decomposition Temperature : Not available

Flammability (solid, gas) : Not available

Lower Flammable Limit : Not available

Upper Flammable Limit : Not available

Vapor Pressure : Not available

Relative Vapor Density at 20 °C : Not available

Relative Density : Not available

Specific Gravity : Not available

Solubility : Not available

Partition Coefficient: N-Octanol/Water : Not available

Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

10.1 ▪ Reactivity: This product contains low concentrations of Sodium Azide <0.1% (w/w). Sodium Azide can form explosive compounds with heavy metals which, with repeated contact with lead and copper commonly found in plumbing drains may result in the buildup of shock sensitive compounds.

- Chemical Stability: Stable under normal ambient and storage and handling temperatures.
- Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
- Incompatible materials to be avoided: Metals and metallic compounds.
- Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute toxicity: Not available.

- Skin corrosion/irritation: Not available.
- Serious eye damage/irritation: Not available.
- Respiratory or skin sensitization: Not available.
- Germ cell mutagenicity: Not available.

- Carcinogenicity: IARC: Not available.
- Reproductive toxicity: Not available.
- Specific target organ toxicity (STOT): Not available.
- Specific target organ toxicity (STOT) -repeated exposure: Not available.
- Aspiration hazard: Not available.
- Information on likely routes of exposure: Routes of entry anticipated; oral, dermal, inhalation.
- Symptoms related to the physical, chemical and toxicological characteristics:
 - Inhalation: Not available.
 - Ingestion: Not available.
 - Skin contact: Not available.
 - Eye contact: Not available.
- Delayed and immediate effects and also chronic effects from short and long term exposure:
 - Short term exposure: Potential immediate effects: Not available. Potential delayed effects: Not available.
 - Long term exposure: Potential immediate effects: Not available. Potential delayed effects: Not available.
- Numerical measures of toxicity: Not available.
- Other Information: Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

12.2. Persistence and Degradability Not established

12.3. Bioaccumulative Potential Not established

12.4. Mobility in Soil Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Ecology – Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

14.4. In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal and State Regulations

TSCA (Toxic Substances Control Act): Not applicable.

SARA 313: Not applicable.

SARA 311/312 Hazards: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

15.2 European Union

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 23MAY2025

Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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