

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

| Issuing Date: 2017-07-10   | Revision Date: 2023-10-02  | Version: 2 |
|--|--|------------|
|  | SECTION 1. Identification  |            |
| Product identifier   |  |            |
| Product No   | 15106  |            |
| Product name   | IRF-4 (D9P5H) Rabbit mAb   |            |
| Recommended use of the chemic  | al and restrictions on use   |            |
| Identified uses  | For Research Use Only. Not for Use in Diagnostic Procedures.   |            |
| Manufacturer, importer, supplier   |  |            |
| Manufacturer address<br>Website<br>Email address<br>Emergency telephone number | Cell Signaling Technology, Inc.<br>3 Trask Lane<br>Danvers, MA 01923<br>United States<br>TEL: +1 978 867 2300<br>FAX: +1 978 867 2400<br>www.cellsignal.com<br>support@cellsignal.com<br>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 nature** 

#### Mixture

| Chemical name | CAS No     | Weight-% |
|---------------|------------|----------|
| glycerol      | 56-81-5    | 30-60    |
| sodium azide  | 26628-22-8 | <0.02    |

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

| Eye contact  | Rinse thoroughly with plenty of water, also under the eyelids. |
|--------------|--|
| Skin contact | Wash skin with soap and water.                                 |
| Inhalation   | Move to fresh air.   |
| Ingestion    | Clean mouth with water and afterwards drink plenty of water.   |

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

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

| 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.

Unsuitable Extinguishing Media No information available.

#### Specific hazards arising from the chemical

No information available.

# 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 | Avoid contact with skin, eyes and clothing. Use personal protective equipment. For personal |
|-----------------------------|---|
| Other information           | protection see section 8.<br>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

| 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. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.

# Conditions for safe storage, including any incompatibilities

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

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

# Control parameters

| Chemical name | ACGIH TLV                       | OSHA PEL                        | NIOSH REL                      |
|---------------|---------------------------------|---------------------------------|--------------------------------|
| glycerol      | -                               | TWA mist, total particulate: 15 | -                              |
|               |                                 | mg/m³                           |                                |
|               |                                 | TWA mist, respirable fraction:  |                                |
|               |                                 | 5 mg/m <sup>3</sup>             |                                |
| sodium azide  | Ceiling: 0.29 mg/m <sup>3</sup> | -                               | Ceiling: 0.1 ppm               |
|               | Ceiling: 0.11 ppm               |                                 | 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.

| Eye/face protection      | Safety glasses with side-shields   |
|--------------------------|--|
| Skin and body protection | Wear protective gloves/clothing.   |
| Respiratory protection   | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| 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

| Liquid<br>Clear<br>Colorless<br>No information available<br>No information available |
|--|
| Values   |
| 7.5  |
| No information available   |
| No information available   |
|  |
| No information available   |
| No information available.  |
| No information available.  |
| No information available   |
|  |
|  |
| No information available   |
|  |

# **SECTION 10. Stability and reactivity**

### **Reactivity**

No information available.

# Chemical stability

Stable under normal conditions.

# Possibility of hazardous reactions

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

Remarks Method @ 20 °C

# Incompatible Materials

Strong oxidizing agents. Strong acids.

# Hazardous Decomposition Products

Nitrogen oxides (NOx)

# **SECTION 11. Toxicological information**

# Information on likely routes of exposure

| Inhalation   | Avoid breathing vapors or mists.  |
|--------------|---|
| Eye contact  | Avoid contact with eyes.  |
| Skin contact | Avoid contact with skin.  |
| Ingestion    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

### Information on toxicological effects

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known. Please use caution while handling this product.

| Chemical name | LD50 Oral           | LD50 Dermal                      | LC50 Inhalation                   |
|---------------|---------------------|----------------------------------|-----------------------------------|
| glycerol      | = 12600 mg/kg (Rat) | > 10 g/kg (Rabbit)               | > 570 mg/m <sup>3</sup> (Rat) 1 h |
| sodium azide  | = 27 mg/kg (Rat)    | = 20 mg/kg (Rabbit) = 50 mg/kg ( | -                                 |
|               |                     | Rat )                            |                                   |

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

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

| Symptoms                 | 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. |
|--------------------------|---|
| Sensitization            | No information available.   |
| Mutagenic effects        | No information available.   |
| Carcinogenicity          | 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.                |
| Reproductive toxicity    | No information available.   |
| 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**

| Chemical name | Toxicity to algae                    | Toxicity to fish                | Toxicity to daphnia and other<br>aquatic invertebrates |
|---------------|--------------------------------------|---------------------------------|--|
| glycerol      | -                                    | LC50 51 - 57 mL/L (Oncorhynchus | EC50 500 mg/L (Daphnia magna) 24                       |
|               |                                      | mykiss) 96 h                    | h  |
| sodium azide  | EC50 0.35 mg/L                       | LC50 0.8 mg/L (Oncorhynchus     | LC100 1 mg/L (Orconectes rusticus)                     |
|               | (Pseudokirchneriella subcapitata) 96 | mykiss) 96 h LC50 5.46 mg/L     | 96 h   |
|               | h                                    | (Pimephales promelas) 96 h LC50 |  |

|  | 0.7 mg/L (Lepomis macrochirus) 96 |  |
|--|-----------------------------------|--|
|  | h                                 |  |

| Persistence and degradability | No information available |
|-------------------------------|--------------------------|
| Mobility                      | No information available |
| Bioaccumulation               |                          |

| Chemical name | Octanol-Water Partition Coefficient |  |
|---------------|-------------------------------------|--|
| glycerol      | -1.76                               |  |

# 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. Dispose of wastes in an approved waste disposal facility.

# **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       |
|---------------|-----------|------------|--------|------------|
| glycerol      | Listed    | Not Listed | Listed | Not Listed |
| 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

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances<br>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

This product contains the following U.S. State Right to Know chemicals:

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| glycerol      | Listed     | Listed        | Listed       |
| 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.

# **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