1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Vitrification Thaw Kit (Vit Kit - Thaw), Dilution Solution-DS
Product code: 90137, 90135
Product Use: Laboratory chemicals.

Manufactured by: FUJIFILM Irvine Scientific, Inc.
2511 Daimler Street
Santa Ana, CA 92705
U.S.A.

SDSs are available at the following website(s): http://www.irvinesci.com

Company Phone Number:
Technical: 800-437-5706
Fax: 949-261-6522

Emergency Telephone:
Transport-CHEMTREC Inside NA: 800-424-9300
Transport-CHEMTREC Outside NA: 703-527-3887
Transport-CANUTEC Inside Canada: 613-996-6666
Medical Emergency (24 hour): 877-935-7387

E-mail: tmrequest@irvinesci.com

2. HAZARDS IDENTIFICATION

Classification:
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

GHS Label elements, including precautionary statements:
Not classified
Precautionary Statements

Prevention
Not applicable

Response
Not applicable

Storage
Not applicable

Disposal
Not applicable

Hazards not otherwise classified (HNOC)
Not classified

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice
Immediate medical attention is not required.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact
Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Ingestion
If swallowed, do not induce vomiting - seek medical advice.

Most important symptoms/effects, acute and delayed

None known.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media

None known.

Specific hazards arising from the chemical
None known.

**Hazardous Combustion Products**

**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.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid contact with the skin and the eyes.

**Environmental precautions**
Prevent product from entering drains.

**Methods and materials for containment and cleaning up**

- **Methods for Containment**: Prevent further leakage or spillage if safe to do so.
- **Methods for cleaning up**: Use personal protective equipment. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**
Wear personal protective equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Ensure adequate ventilation.

**Conditions for safe storage, including any incompatibilities**
Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures between 2 and 8 °C (35 and 46 °F).

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

- **Exposure Guidelines**: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Exposure controls**

- **Engineering Measures**: Ventilation systems

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

- **Eye/Face Protection**: If splashes are likely to occur, wear safety glasses with side-shields.
Skin and body protection
Wear protective gloves/clothing.

Respiratory protection
None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

General Hygiene Considerations
When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear</td>
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<tr>
<td>Odor Threshold</td>
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<tr>
<td>pH</td>
<td>7.1 - 7.4</td>
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<tr>
<td>Specific Gravity</td>
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</tr>
<tr>
<td>Flash point</td>
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<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Melting point / melting range</td>
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</tr>
<tr>
<td>Flammability Limit in Air</td>
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<tr>
<td>Odor</td>
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<td>Physical State @20°C</td>
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<tr>
<td>Molecular Weight</td>
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<tr>
<td>Autoignition temperature</td>
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<tr>
<td>Boiling point / boiling range</td>
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<tr>
<td>Freezing Point</td>
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</tr>
<tr>
<td>Oxidizing Properties</td>
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</tr>
<tr>
<td>Solubility</td>
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</tr>
<tr>
<td>Evaporation rate</td>
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</tr>
<tr>
<td>Vapor density</td>
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<tr>
<td>VOC (lb/gal)</td>
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</tr>
<tr>
<td>Dynamic viscosity</td>
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<tr>
<td>Explosive Properties</td>
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<tr>
<td>Partition coefficient</td>
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<tr>
<td>Vapor Pressure</td>
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</tr>
<tr>
<td>Density</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC (g/l)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

Reactivity
Stable under recommended storage conditions.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Conditions to Avoid
Freezing. Protect from light.

Incompatible Materials

Hazardous Decomposition Products
None known.

### 11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure

Product Information

Acute toxicity

Inhalation  Non-irritating during normal use.
Eyes  Non-irritating during normal use.
Skin  Non-irritating during normal use.
Ingestion  Ingestion may cause stomach discomfort.

Component Information

No information available

Information on toxicological effects

No information available.

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

Irritation  Non-irritating during normal use.
Corrosivity  No information available.
Sensitization  No information available.
Mutagenic Effects  No information available.
Reproductive Toxicity  No information available.
Carcinogenicity  None known.

STOT - single exposure  No information available.
STOT - repeated exposure  No information available.
Target Organ Effects  None known.
Aspiration hazard  No information available.

Numerical measures of toxicity - Product Information

ATEmix (oral)  >5000 mg/kg

ATE: Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.
Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with local regulations.

Contaminated packaging
Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT
Not regulated

TDG
Not regulated.

MEX
Not regulated

ICAO
Not regulated

IATA
Not regulated

IMDG
Not regulated

ADR/RID
Not regulated

ADN
Not regulated

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
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<tbody>
<tr>
<td>TSCA</td>
<td>No</td>
</tr>
<tr>
<td>DSL/NDSL</td>
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</tr>
<tr>
<td>PICCS</td>
<td>No</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
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<td>No</td>
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<tr>
<td>AICS</td>
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</table>

*Yes - All component(s) of this product are included or are exempt from listing on the inventory.

*No - Indicates the component(s) of this product are either not listed or have not been determined to be listed on the inventory.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
U.S. Federal Regulations

TSCA Sections 4, 5 and 12(b)
This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

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
Classification is shown in section 2 of this SDS

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.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations
This product does not contain any substances regulated by state right-to-know regulations.

International Regulations

Canada - NDSL

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>NDSL</th>
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<tbody>
<tr>
<td>Sodium salt compound</td>
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<tr>
<td>Amino acid</td>
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</table>

Mexico - Grade
No information available

Mexico - Carcinogen Status and Exposure Limits
No information available

Other Regulations
No information available
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical and chemical hazards</th>
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<table>
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Prepared By: FUJIFILM Environment, Health and Safety, phone: 800-473-3854
Revision Date: 22-May-2019
Revision Note: No information available
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.

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