



90188, 90187

# SAFETY DATA SHEET

Issuing Date: 22-May-2019 Version 1

# Vit Kit - Freeze NX, Vitrification NX - VS

# 1. PRODUCT AND COMPANY IDENTIFICATION

Vit Kit - Freeze NX, Vitrification NX - VS **Product Name** 

**Product code** 90188, 90187

**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 http://www.irvinesci.com

website(s):

**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

Specific target organ toxicity (repeated exposure)

Category 2

GHS Label elements, including precautionary statements

Warning

**Hazard Statements** 

May cause damage to organs through prolonged or repeated exposure



### **Precautionary Statements**

#### Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

#### Response

Get medical advice/attention if you feel unwell

### **Storage**

Not applicable

#### Disposal

Dispose of contents/container to an approved waste disposal plant

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

Not classified

#### Other hazards

May be harmful if swallowed

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Dihyrdoxy alcohol	Proprietary	10-30%

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

### 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

Causes central nervous system depression.

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

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

#### **Unsuitable Extinguishing Media**

None known.

#### Specific hazards arising from the chemical

None known.

#### **Hazardous Combustion Products**

Carbon oxides. Sodium oxides. Hydrogen chloride.

#### **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**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	AIHA - Workplace Environmental Exposure Levels (WEELs) - TWAs
Dihyrdoxy alcohol	STEL: 50 ppm vapor fraction STEL: 10 mg/m³ inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 125 mg/m³		

#### **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

Appearance	clear	Odor	Characteristic
Odor Threshold	Not available	Physical State @20°C	Liquid
pH	7.05 - 7.44		
Specific Gravity	Not available	Molecular Weight	Not available
Flash point	Not available	Autoignition temperature	Not available
Decomposition temperature	Not available	Boiling point / boiling range	Not available
Melting point / melting range	Not available	Freezing Point	Not available
Flammability Limit in Air	Not available		
Oxidizing Properties	Not available	Explosive Properties	Not available
Solubility	Not available	Partition coefficient	Not available
Evaporation rate	Not available	Vapor Pressure	Not available
Vapor density	Not available	Density	Not available
VOC (lb/gal)	Not available	VOC (g/I)	Not available
Dynamic viscosity	Not available		

# 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

Strong oxidizing agents. Strong acids. Strong bases. Aldehydes. Aluminium.

### <u>Hazardous Decomposition Products</u>

None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Acute toxicity** 

InhalationNon-irritating during normal use.EyesMay cause slight irritation.SkinNon-irritating during normal use.IngestionMay be harmful if swallowed.

### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	LC50 (lethal concentration)
Dihyrdoxy alcohol	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530	
		μL/kg (Rabbit)	

#### Information on toxicological effects

No information available.

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

IrritationNon-irritating during normal use.CorrosivityNo information available.SensitizationNo information available.Mutagenic EffectsNo information available.Reproductive ToxicityNo information available.

Carcinogenicity None known.

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

**STOT - repeated exposure**May cause damage to kidneys through prolonged or repeated exposure if swallowed.

Target Organ Effects Central nervous system (CNS), Liver, Kidney.

**Aspiration hazard** No information available.

Numerical measures of toxicity - Product Information

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# The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

3333 mg/kg

ATE: Acute toxicity estimate

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

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Chemical Name	Algae toxicity	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Dihyrdoxy alcohol		Pimephales promelas:		
		40000 - 60000 mg/L at 96 h		

### Persistence and degradability

No information available.

# **Bioaccumulation**

Chemical Name	Octanol Water Partition Coefficient (log pow)
Dihyrdoxy alcohol	-1.93

### 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.

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### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated.

MEX Not regulated

ICAO Not regulated

**IATA** Not regulated

<u>IMDG</u> Not regulated

ADR/RID Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** No **DSL/NDSL** No **PICCS** No **EINECS/ELINCS** No **ENCS** No **IECSC** No **KECL** No No **AICS** 

\*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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

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

Chemical Name	CAS No	SARA 313 - Threshold Values %	Weight-%
Dihyrdoxy alcohol	Proprietary	1.0	10-30%

### 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, 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 RQs	RQ
Dihyrdoxy alcohol	5000		RQ 5000 lb final RQ RQ 2270 kg final RQ

### U.S. State Regulations

### **California Proposition 65**



WARNING: Reproductive Harm - www.P65Warnings.ca.gov

Chemical Name	CAS No	California Prop. 65	Weight-%
Dihyrdoxy alcohol		Developmental	15

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dihyrdoxy alcohol	X	X	X	X	

### International Regulations

### Canada - NDSL

Chemical Name	NDSL
Sodium sulfonate compund	X
Sodium salt compound	X

### Mexico - Grade

No information available

### **Mexico - Carcinogen Status and Exposure Limits**

	Chemical Name	Carcinogen Status	Exposure Limits
Ī	Dihyrdoxy alcohol		Mexico: Ceiling 100 mg/m <sup>3</sup>

# **Other Regulations**

No information available

# **16. OTHER INFORMATION**

NFPA Health Hazard 1 Flammability 1 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 1 Flammability 1 Physical Hazard 0 Personal protection B

Prepared By FUJIFILM Environment, Health and Safety, phone: 800-473-3854

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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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