



## SAFETY DATA SHEET

Version 1

Issuing Date: 12-Oct-2022

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

**Product Code(s)** C1000-C2000

**Product Name** iCell® Products

#### Other means of identification

**Recommended use** For research use only

**Uses advised against** No information available

#### Supplier

FUJIFILM Wako Pure Chemical Corporation  
1-2 Doshomachi 3-Chome  
Chuo-ku Osaka 540-8605, Japan

#### Manufactured by

FUJIFILM Cellular Dynamics, Inc.  
525 Science Drive  
Madison, WI 53711

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**E-mail Address** fcdi-support@fujifilm.com

### Section 2: HAZARDS IDENTIFICATION

#### GHS Classification

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

#### GHS Label elements, including precautionary statements

#### **Hazard Statements**

None

**Precautionary Statements****Prevention**

Not applicable

**Response**

Not applicable

**Storage**

Not applicable

**Disposal**

Not applicable

**Other hazards**

None known

**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed

Chemical name	Weight-%	ENCS	ISHL No	KECL	CAS No
Dimethyl Sulfoxide	10 - 20%	(2)-1553	(2)-1553	KE-32367	67-68-5

**Section 4: FIRST AID MEASURES**

<b>General advice</b>	If symptoms persist, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	If swallowed, call a poison control center or physician immediately.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Self-Protection of the First Aider</b>	Use personal protection equipment.
<b>Signs and Symptoms of Exposure</b>	No information available.
<b>Notes to physician</b>	Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Dry chemical, CO2, alcohol-resistant foam or water spray.
<b>Unsuitable Extinguishing Media</b>	None known.
<b>Specific hazards arising from the chemical</b>	None known.
<b>Hazardous Combustion Products</b>	Carbon oxides. Sulfur oxides.
<b>Special protective equipment for fire-fighters</b>	Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**Section 6: ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Use personal protective equipment. Avoid contact with skin, eyes or clothing.
<b>Environmental precautions</b>	Prevent product from entering drains.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Use personal protective equipment as required. 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.

**Section 7: HANDLING AND STORAGE**

Handling

<b>Technical measures</b>	Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists.
<b>General ventilation</b>	Ensure adequate ventilation.
<b>Precautions for safe handling</b>	See section 8 for more information. See section 10 for more information.

Storage

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.
<b>Packaging materials</b>	Keep only in original packaging.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Occupational Exposure Limits**

Chemical name	Japan	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	Korea	China	ACGIH TLV
Dimethyl Sulfoxide 67-68-5				TWA: 160 mg/m <sup>3</sup> Skin	

Chemical name	Vietnam	Thailand	Malaysia
Dimethyl Sulfoxide	20 mg/m <sup>3</sup> TWA 50 mg/m <sup>3</sup> STEL		

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

<b>Respiratory protection</b>	In case of inadequate ventilation wear respiratory protection.
<b>Hand Protection</b>	Wear suitable gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
<b>Eye/Face Protection</b>	If splashes are likely to occur, wear safety glasses with side-shields.
<b>Skin and body protection</b>	Suitable protective clothing.
<b>General Hygiene Considerations</b>	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.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear	<b>Odor</b>	Slight
<b>Odor Threshold</b>	No information available	<b>Physical state</b>	Liquid
<b>pH</b>	No information available	<b>Flash point</b>	No information available
<b>Boiling point / boiling range</b>	No information available	<b>Decomposition temperature</b>	No information available
<b>Autoignition temperature</b>	No information available	<b>Freezing Point</b>	24.8 °F / -4 °C
<b>Melting point / melting range</b>	32 °F / 0 °C		
<b>Flammability Limit in Air</b>	No information available		
<b>Oxidizing Properties</b>	No information available	<b>Explosive Properties</b>	No information available
<b>Specific Gravity</b>	No information available	<b>Solubility</b>	Soluble in water
<b>Evaporation rate</b>	No information available		
<b>Vapor density</b>	No information available	<b>Density</b>	No information available
<b>Dynamic viscosity</b>	No information available	<b>Partition coefficient</b>	No information available
<b>Other information</b>			
<b>Molecular Weight</b>	No information available		
<b>VOC (lb/gal)</b>	None		
<b>VOC (g/l)</b>	None		

### Section 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**

Excessive heat. Freezing.

**Incompatible materials**

Strong oxidizing agents, Strong acids, Strong bases, Acid chlorides.

**Hazardous decomposition products**

None known.

### Section 11: TOXICOLOGICAL INFORMATION

**Product Information**

**Acute toxicity**

<b>Inhalation</b>	No known effects under normal use conditions.
<b>Eyes</b>	No known effects under normal use conditions.
<b>Skin</b>	Causes mild skin irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Numerical measures of toxicity - Product Information**

ATEmix (oral) >5000 mg/kg

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Dimethyl Sulfoxide	= 28300 mg/kg ( Rat )	= 40000 mg/kg ( Rat )	> 5.33 mg/L ( Rat ) 4 h

**Carcinogenicity** None known.

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

**Irritation** Mild skin irritant.  
**Corrosivity** No information available.  
**Sensitization** No information available.  
**Mutagenic Effects** No information available.  
**Reproductive Toxicity** No information available.  
**Aspiration hazard** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target organ effects** Skin.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity**

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

Chemical name	Algae/aquatic plants	Fish	Crustacea
Dimethyl Sulfoxide		LC50: 33 - 37g/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: =34000mg/L (96h, <i>Pimephales promelas</i> ) LC50: =41.7g/L (96h, <i>Cyprinus carpio</i> ) LC50: >40g/L (96h, <i>Lepomis macrochirus</i> )	

**Bioaccumulation**

Chemical name	Partition coefficient n-octanol /water (log KOW)
Dimethyl Sulfoxide	-2.03

**Mobility in soil**

No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Section 14: TRANSPORT INFORMATION**

**IMDG** Not regulated

**ICAO (air)** Not regulated

**ADR** Not regulated

**IATA** Not regulated

**Section 15: REGULATORY INFORMATION**

**International Inventories**

**ENCS** Yes

**IECSC** Yes

**KECL** Yes

**PICCS** Yes

**TCSI** Yes

**TECI** Yes

**NCI** Yes

**Legend:**

**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  
**TCSI** - Taiwan Chemical Substance Inventory  
**TECI** - Thailand Existing Chemical Inventory  
**NCI** - Vietnam National Chemicals Inventory

**Japan**

**Industrial Safety and Health Law**

Chemical name	Dangerous Substances	organic solvents	Harmful Substances Whose Names Are to be Indicated on the Label	ISHL - Prevention of Hazards Due to Specified Chemical Substances (Class 2)	Prevention of Lead Poisoning
Dimethyl Sulfoxide 67-68-5	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Chemical name	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poisonous and Deleterious Substances Control Law	Fire Service Law:
Dimethyl Sulfoxide 67-68-5	Not applicable	Not applicable	Not applicable	Group 4

**China**

Chemical name	List of Dangerous Goods	China Inventory of Hazardous Chemicals	Law of the People's Republic of China on Prevention and Control of Occupational Diseases
Dimethyl Sulfoxide 67-68-5	Present	Not applicable	X

**Korea**

Chemical name	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Korea. Harmful Substances Requiring Permission	Korea - MOE - Wastes Control Act - Hazardous Substances in Controlled Wastes
Dimethyl Sulfoxide 67-68-5	Not applicable	Not applicable	Not applicable

Chemical name	ISHA - Substances to be controlled - Organic Substances	Chemicals Control Act
Dimethyl Sulfoxide	Not applicable	Not applicable

**Taiwan**

Chemical name	List of hazardous chemicals under priority management	Toxic and Concerned Chemical Substances Control Act
Dimethyl Sulfoxide 67-68-5	Not applicable	Not applicable

**Singapore**

Chemical name	Hazardous Substances
Dimethyl Sulfoxide 67-68-5	Not applicable

**Indonesia**

Chemical name	Indonesia - Hazardous and Poisonous Substances (B3)	Highly toxic chemical
Dimethyl Sulfoxide 67-68-5	Not applicable	Not applicable

**Thailand**

Chemical name	Hazardous chemical
Dimethyl Sulfoxide	Not applicable

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Chemical name	Hazardous chemical
67-68-5	

**Vietnam**

Chemical name	Law on Chemicals (No. 06/2007/QH12)
Dimethyl Sulfoxide 67-68-5	Not applicable

**Section 16: OTHER INFORMATION**

**Revision Date** 12-Oct-2022

**Revision Note** No information available.

**Disclaimer** This SDS complies with the requirements of JIS Z 7253:2019 and JIS Z 7252:2019(Japan). The information provided in this Material 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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