



SAFETY DATA SHEET

Version 1

Issuing Date: 02-Aug-2019

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Code(s) C1037, C1038, C1006, C1106, C1016, C1028, C1021, C1114, C1008, C1012, C1033, C1092, C1040, C1023, C1026, C1044, C1043, C1110, C1048, C1046, C1045, C1056, C1105, C1087, C1060, C1090, C1050, C1047, C1159, C1155, C1156, C1202, C1203, C1204, C1205, C1206, CMC-100-012-000.5

Product Name iCell® Products

Recommended use of the chemical and restrictions on use

Product Use For research use only

Uses advised against No information available

Supplier

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Manufactured by

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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

None

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

| Chemical Name | Weight-% | ENCS | ISHL No | CAS No |
|--------------------|----------|----------|----------|---------|
| Dimethyl Sulfoxide | 10 - 20% | (2)-1553 | (2)-1553 | 67-68-5 |

Section 4: FIRST AID MEASURES

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

Section 5: FIRE FIGHTING MEASURES

| | |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media | Dry chemical, CO ₂ , alcohol-resistant foam or water spray. |
| Unsuitable Extinguishing Media | None known. |
| Specific hazards arising from the chemical | None known. |
| Hazardous Combustion Products | Carbon oxides. Sulfur oxides. |
| Special protective equipment for fire-fighters | Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |

Section 6: ACCIDENTAL RELEASE MEASURES

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

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

Storage

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational Exposure Limits | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies |
| Engineering Measures | Ensure adequate ventilation, especially in confined areas. |
| <u>Personal Protective Equipment</u> | |
| Respiratory protection | In case of inadequate ventilation wear respiratory protection. |
| Hand Protection | 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. |
| Eye/Face Protection | Tight sealing safety goggles. |
| Skin and body protection | Suitable protective clothing. |
| 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. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|--------------------------------------|--------------------------|----------------------------------|--------------------------|
| Appearance | clear | Odor | Slight |
| Odor Threshold | No information available | Physical State @20°C | Liquid |
| pH | No information available | Flash point | No information available |
| Boiling point / boiling range | No information available | Decomposition temperature | No information available |
| Autoignition temperature | No information available | Freezing Point | -4 °C / 24.8 °F |
| Melting point / melting range | 0 °C / 32 °F | | |
| Vapor Pressure | | | |
| Flammability Limit in Air | No information available | | |

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

| | |
|-------------------|---------------------------------------------------------------------------------|
| Inhalation | No known effects under normal use conditions. |
| Eyes | No known effects under normal use conditions. |
| Skin | Causes mild skin irritation. |
| Ingestion | 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 | LC50 (lethal concentration) |
|--------------------|---------------------------------------------|-------------------|-----------------------------|
| Dimethyl Sulfoxide | = 14500 mg/kg (Rat) = 28300 mg/kg (Rat) | = 40 g/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 toxicity | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|--------------------|----------------|-------------------------------------------------|-----------------------------------------------------|
| Dimethyl Sulfoxide | | <i>Pimephales promelas</i> : 34000 mg/L at 96 h | |

Bioaccumulation

| Chemical Name | Octanol Water Partition Coefficient (log pow) |
|--------------------|-----------------------------------------------|
| Dimethyl Sulfoxide | -2.03 |

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 Not regulated

ADR/RID Not regulated

IATA Not regulated

Section 15: REGULATORY INFORMATION

International Inventories

| | |
|---------------|-----|
| TSCA | Yes |
| DSL/NDSL | Yes |
| EINECS/ELINCS | Yes |
| ENCS | Yes |
| IECSC | Yes |
| KECL | Yes |
| PICCS | Yes |
| AICS | Yes |

Legend:

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

Industrial Safety and Health Law Not applicable

| 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 |

Section 16: OTHER INFORMATION

Prepared By FUJIFILM Environment, Health and Safety, phone: (01) (800) 473-3854

Revision Date 02-Aug-2019

Revision Note No information available.

Disclaimer This SDS complies with the requirements of JIS Z 7250:2010 and JIS Z 7252:2009 (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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