



SAFETY DATA SHEET

Version 1

Issuing Date: 12-May-2025

Product identifier

Product code M1057
SAP Number 92600000745
Product Name iCell Plating Supplement A

Other means of identification

Recommended 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

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	80-100%	(2)-1553	(2)-1553	KE-32367	67-68-5

4. FIRST AID MEASURES**General advice**

Immediate medical attention is not required.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

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

Ingestion

If swallowed, call a poison control center or physician immediately.

Inhalation

If symptoms persist, call a physician. Remove to fresh air.

Self-Protection of the First Aider

Use personal protection equipment.

Signs and Symptoms of Exposure

No information available.

Notes to physician

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**Suitable Extinguishing Media**Dry chemical, CO₂, water spray or alcohol-resistant foam.**Unsuitable Extinguishing Media**

None known.

Special hazards arising from the substance or mixture

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.

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 and material for containment and 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.

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 in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures below -20°C / -4°F.
Packaging materials	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 ³ Skin	

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

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
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Personal Protective Equipment

Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
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	If splashes are likely to occur, wear safety glasses with side-shields.
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	White to light pink/orange in color when frozen	Odor	No information available
Odor Threshold	No information available	Physical state	Liquid
pH	7.1 - 7.7	Flash point	No information available
Boiling point / boiling range	No information available	Decomposition temperature	No information available
Autoignition temperature	No information available	Freezing Point	No information available
Melting point / melting range	No information available		
Flammability Limit in Air	No information available		
Oxidizing Properties	No information available	Explosive Properties	No information available
Specific gravity	No information available	Solubility	No information available
Evaporation rate	No information available		
Vapor density	No information available	Density	No information available
Dynamic viscosity	No information available	Partition coefficient	No information available
Other information			
Molecular Weight	No information available		
VOC (lb/gal)	No information available		
VOC (g/l)	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

Temperatures above -20 °C / -4 °F. Protect from sunlight.

Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases.

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

No known effects under normal use conditions.

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	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	No information available.
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.**Key literature references and sources for data used to compile the SDS**

European Chemicals Agency (ECHA)

Korea National Institute of Environmental Research Evaluations (Korea_NIER)

National Institute of Technology and Evaluation (NITE)

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: =34000mg/L (96h, <i>Pimephales promelas</i>) LC50: 33 - 37g/L (96h, <i>Oncorhynchus mykiss</i>) LC50: >40g/L (96h, <i>Lepomis macrochirus</i>) LC50: =41.7g/L (96h, <i>Cyprinus carpio</i>)	

Bioaccumulation

Chemical name	Partition coefficient n-octanol /water (log KOW)
Dimethyl Sulfoxide	-1.35

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

A. UN number or ID number	Not regulated
B. UN proper shipping name	Not applicable
C. Transport hazard class(es)	Not applicable
D. Packing Group	Not applicable
E. Marine Pollutant	Not applicable
F. Special Precautions for Users	Not applicable

IMDG	Not regulated
ICAO (air)	Not regulated
ADR	Not regulated
IATA	Not regulated

Section 15: REGULATORY INFORMATION

International Inventories

ENCS	No
IECSC	No
KECL	No
PICCS	No
TCSI	No
TECI	No
NCI	No

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 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

Fire Service Law:

Chemical Substances Control Law	Not applicable
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Industrial Safety and Health Act	Not applicable
Poisonous and Deleterious Substances Control Law	Not applicable

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	Harmful substances subject to control	Harmful Agents Subject to Work Environment Monitoring	Harmful Agents Subject to Workers Requiring Health Examination
Dimethyl Sulfoxide 67-68-5	Not Applicable	Not Applicable	Not Applicable

Chemical name	Korea - Occupational Exposure Limits	Prohibited Harmful Substances	Substances Subject to Submission of Process Safety Reports
Dimethyl Sulfoxide	Not Applicable	Not Applicable	Not Applicable

Chemical name	Safety Control of Dangerous Substances Act	Chemicals Control Act	Waste Management Act
Dimethyl Sulfoxide 67-68-5	Not applicable	Not applicable	Not Applicable

Taiwan

No information available

Singapore

No information available

Indonesia

No information available

Thailand

No information available

Vietnam

No information available

Section 16: OTHER INFORMATION

Revision Date 12-May-2025

Revision Note No information available.

Key literature references and sources for data used to compile the SDS

European Chemicals Agency (ECHA)

Korea National Institute of Environmental Research Evaluations (Korea_NIER)

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Disclaimer

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