E E J A

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : **MICROFAB Au600 AGENT**
Code : SDSE01267
Company name : Electroplating Engineers of Japan Ltd.
Address (Head office) : 7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-6422 JAPAN
(Hiratsuka office) : 5-50 Shinmachi, Hiratsuka, Kanagawa, 254-0076 Japan
Preparer : SDS administrator
Telephone number : 81-463-32-8131 (for Information and Emergency)
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2. HAZARDS IDENTIFICATION

GHS classification

Physical and Chemical hazards			
Explosives	Not applicable	Pyrophoric liquids	Not applicable
Combustible/flammable gases	Not applicable	Pyrophoric solids	Not classified
Chemical unstable gases	Not applicable	Self-heating substances and mixtures	Not applicable
Combustible/flammable aerosols	Not applicable	Substances and mixtures that emit flammable gases in contact with water	Not applicable
Combustion-supporting/oxidizing gases	Not applicable	Oxidizing liquids	Not applicable
Gases under pressure	Not applicable	Oxidizing solids	Not classified
Flammable liquids	Not applicable	Organic peroxides	Not applicable
Combustible solids	Not classified	Metal corrosives	Not classified
Self-reactive substances and mixtures	Not applicable		
Health hazards			
Acute toxicity (oral)	Not classified	Respiratory sensitization	No data available
Acute toxicity (dermal)	No data available	Skin sensitization	No data available
Acute toxicity (inhalation: gases)	Not applicable	Germ cell mutagenicity	No data available
Acute toxicity (inhalation: vapors)	Not applicable	Carcinogenicity	No data available
Acute toxicity (inhalation: dusts)	No data available	Reproductive toxicity	No data available
Acute toxicity (oral: mists)	No data available	Specific target organ toxicity (single exposure)	No data available
Skin corrosion/irritation	Not classified	Specific target organ toxicity (repeated exposure)	No data available
Serious eye damage/eye irritation	Category 2B	Aspiration hazards	No data available

Environmental Hazards			
Hazardous to the aquatic environment – short-term (acute) hazard	No data available	Hazardous to the aquatic environment – Long-term (chronic) hazard	No data available
Hazardous to the ozone layer	No data available		

GHS label elements

Pictogram or symbol	Signal word
	Warning

Hazard information

- Causes eye irritation.

Precautionary Statements

<Safety measures>

- Wear protective gloves/ clothing/ glasses/ mask.
- Use local exhaust.
- Do not swallow or breathe mist/vapors.
- Do not get in eyes, on skin, or on clothing.
- Do not eat, drink or smoke when using it.
- Wash hands thoroughly after handling.

<First aid measures>

- If inhaled, remove to fresh air and keep at rest and call a doctor if the person feels unwell.
- If swallowed, immediately call a doctor.
- If on skin, wash with plenty of soap and water and remove all contaminated clothing.
- If in eyes, rinse well with water and call a doctor as needed.
- If skin or eye irritation/inflammation occurs, get medical advice/attention.

<Storage>

- Store locked up in a cool/well-ventilated place.

<Disposal>

- Dispose of container and content based on local/regional/international rules.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical substance: ☑ Single compound/ ☐ Mixture

Chemical name	%	Formula	CAS #
Organic acid salt	>99.0%	—	—

4. FIRST AID MEASURES

Inhalation : Immediately cover the victim with blanket etc. and remove to fresh air to rest. Help the victim to blow his/her nose and gargle.

Skin contact : Immediately remove contaminated clothing and shoes. Wash exposed or contacted parts with large amounts of water.

Eye contact : Wash with large amounts of water for at least 15 minutes and get medical attention immediately.

Ingestion : Keep the victim warm with blanket etc. Give large amount of water or saline solution to induce vomiting. Get medical attention as needed.

5. FIRE FIGHTING MEASURES

Extinguishing media : Large amounts of water

Fire fighting procedures : This product is nonflammable but in case of surrounding fire, removes the container to a safe place without delay. If impossible, cool down the container and surrounding by sprinkling water.

6. ACCIDENTAL RELEASE MEASURES

Personal safeguards : Always wear protective equipment when handling this product.
Work from upwind and evacuate downwind people.

Environmental safeguards : Do not rinse with water directly without pre treatment.

Disposal procedures : Collect as much of the spilled powder as possible and put into an empty container. Wash the spilled area with large amounts of water.

7. HANDLING AND STORAGE

Handling

Engineering measures : Wear personal protective equipment to avoid contact and inhalation.

Safety handling : Ventilate area to avoid inhaling the dust. Provide local exhaust system. Handle with care to avoid any physical damage.

Storage

Safety storage condition : Keep separated from other materials. Room temperature (10~30°C) and indoor away from direct sunlight

Incompatibles : Oxidizing agents

Safety packing materials : Polyethylene etc.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective equipment : Safety glasses, protective gloves/uniform

Facility measures : Provide local exhaust system.

Threshold limits : ACGIH (the year 2009 Edition): Not set

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Powder
Color	: White
Odor	: None
pH	: Not applicable (Reference; 9.0-11.0(50g/L(20°C))
Boiling point	: Decomposition
Melting point	: Decomposition
Flammable point	: No data available
Ignition point	: No data available
Explosion properties	: Nonflammable
Density	: 2.63g/cm^3 (20°C)
Solubility	: Easily soluble in water (33.1%(40°C))

10. STABILITY AND REACTIVITY

Stability	: Stable under normal use conditions.
Reactivity	: Stable under normal use conditions.
Conditions to avoid	: Sunlight, heat
Incompatible materials	: Oxidizing agent
Hazardous decomposition	: None
Others	: May effloresce in dry air.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: No data available
Skin corrosion/irritation	: May irritate the skin and mucous membranes.
Serious eye damage/eye irritation	: No data available
Sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: No data available
Toxic to reproduction	: No data available
Specific target organ toxicity	: No data available
Aspiration hazards	: No data available

12. ECOLOGICAL INFORMATION

Toxic to reproduction	: No data available
Persistence/Biodegradability	: No data available
Bioaccumulation	: No data available
Mobility in soil	: No data available
Ozone layer	: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues:

Disposal should be in accordance with applicable regional, national and local lows and regulations

Contaminated container and packaging:

Disposal should be in accordance with applicable regional, national and local lows and regulations

14. TRANSPORT INFORMATION

Aviation regulated information

UN Class	:	Not applicable
UN number	:	Not applicable
Packing group	:	Not applicable

Marine regulated information

UN Class	:	Not applicable
UN number	:	Not applicable
Packing group	:	Not applicable

Marine pollution substances : Not applicable

Specific safety measures and conditions on transport:

Handle with care to avoid any physical damage.

Exercise caution with regard to loss and theft in transit or recess.

15. REGULATORY INFORMATION

Observe the applicable international regulations, and the laws of the particular countries affected.

** For applicable Japanese regulations, refer to the Japanese version of this SDS.*

16. OTHER INFORMATION

Reference :

Globally Harmonized System of Classification and Labeling of Chemicals by The Chemical daily Co., Ltd.

Guideline for Material Safety Data Sheet Edition by Japan Chemical Industry Association

Dangerous Goods Regulations by The Japan Air Cargo Institute for Safety

13700 Chemical Products by The Chemical daily Co., Ltd.
Chemical Substances Control Manual by The Chemical daily Co., Ltd.

Emergency Response Guidebook by Japan Chemical Industry Association

2000TLVs and BEIs by ACGIH

Poisonous and Deleterious Substances Control Law Statute Book by Yakumukohosha

Substances listed by PRTR Law/Industrial Safety and Health Law by The Chemical daily Co., Ltd.

Chemical Products Safety Control Data book by The Chemical daily Co., Ltd.

HP with National Institute of Technology and Evaluation (Japan)

SDSs and MSDSs of each raw material company

Date of issue ; Nov. 5, 2019

Date of revision;

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