

Date of issue	September 28, 2012
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SAFTY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY

Product name	:	Stain prevention fluid MEA-10
Product use	:	Additive solution for dielectric water for wire EDM machine
Supplier	:	MAKINO MILLING MACHINE CO.,LTD.
Address	:	3-19,Nakane2-chome,Meguro-ku,Tokyo152-8578,Japan
Telephone Number	:	+81-(0)3-3717-1151
Fax Number	:	+81-(0)3-3725-2105
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2. HAZARDS IDENTIFICATION

GHS Classification

Physical hazards	Explosives	Not classified
	Flammable gases	Not classified
	Flammable aerosols	Not classified
	Oxidizing gases	Not classified
	Gases under pressure	Not classified
	Flammable liquids	Not classified
	Flammable solids	Not classified
	Self-reactive substances and mixtures	Not classified
	Pyrophoric liquids	Not classified
	Pyrophoric solids	Not classified
	Self-heating substances and mixtures	Not classified
	Substances and mixtures which, in contact with water, emit flammable gases	Not classified
	Oxidizing liquids	Not classified
	Oxidizing solids	Not classified
	Organic peroxides	Not classified
	Corrosive to metals	Not classified
	Health hazards	Acute toxicity (oral)
Acute toxicity (dermal)		Not classified
Acute toxicity (gases)		Not classified
Acute toxicity (vapors)		Not classified
Acute toxicity (dust / mist)		Not classified
Skin corrosion / irritation		Not classified
Serious eye damage / eye irritation		Not classified
Respiratory sensitization		Not classified
Skin sensitization		Not classified
Germ cell mutagenicity		Not classified
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	

	Specific target organ systemic toxicity single exposure	Not classified
	Specific target organ systemic toxicity repeated exposure	Not classified
	Aspiration hazard	Not classified
Environmental hazards	Acute aquatic toxicity	Not classified
	Chronic aquatic toxicity	Not classified
Labeling elements	:	Not applicable
Signal words	:	Not applicable
Hazard statements	:	Not applicable
Precautionary statements	:	Wash immediately when solution gets contact to your eyes or skin. Wear the protective equipment such as goggles, gloves, and masks if necessary.

3 . COMPOSITION / INFORMATION ON INGREDIENTS

Substance or Mixture	:	Mixture
GHS hazardous ingredients	:	No hazardous material presents.

4 . FIRST AID MEASURES

Inhalation	:	Rest in a well-ventilated area and seek medical attention if necessary.
Skin contact	:	Wash with running water immediately and seek medical attention if necessary.
Eye contact	:	Rinse with clean running water for at least 15 minutes and seek medical attention.
Ingestion	:	Have a glass of water immediately and induce vomiting. When cannot vomit or illness remains, give large amount of water or milk, and seek medical attention immediately.

5 . FIRE FIGHTING MEASURES

Extinguishing media	:	Foam, Carbon dioxide, Dry chemical, Water
Fire fighting instructions	:	For peripheral fire, the following procedure should be taken. <ol style="list-style-type: none"> 1. Move container(s) to safe place. 2. If cannot move the containers, keep it wet and cool by using water. Treat carefully to avoid container breakage. 3. Be aware of possible contamination by extinguishing water or diluted chemical liquid.
Protective equipment	:	Quenching should start from the windward and wear appropriate personal protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Wear appropriate personal protective equipment in order to avoid contact with eyes, skin and clothes.
Environmental precautions	:	Must NOT drain directly.
Methods and materials for containment and cleaning up	:	Wipe the leaked agent by using rags, and collect it in empty container as much as possible. Wash with water, and the wastewater should under go wastewater treatment.

7 .HANDLING AND STORAGE

- Handling** : Handling container carefully to avoid falling and damage.
Keep container closed during storage.
Wear appropriate personal protective equipment in order to avoid contact with eyes, skin and clothes.
Prevent mixture with incompatible substances (Strong base / Strong acid / Oxidizing agent).
- Storage** : Keep the container closed to prevent mixture with other agent.
Never store with Strong base / Strong acid / Oxidizing agent at same area.
Store in a cool ventilated area and avoid direct sunlight.
We recommend non fragile polyethylene resin and metal containers.

8 .EXPOSURE CONTROLS / PERSONAL PROTECTION

- Exposure limit values** : Information is not available
- Engineering controls** : Use with adequate ventilation.
Handle and store in a cool ventilated space.
- Personal protective equipment**
- Respiratory protection** : Mask
- Hand protection** : Rubber gloves
- Eye protection** : Safety goggle
- Skin protection** : Rubber apron

9 .PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Colorless clear liquid
- Odor** : None
- pH** : 5.1
- Melting point / freezing point** : Not available
- Initial boiling point and boiling range** : Not applicable
- Flash point** : Not applicable;
- Upper / lower flammability or explosive limits** : Not applicable
- Vapor pressure** : Not applicable
- Vapor density** : Not applicable
- Relative density** : 1.17 g/cm³ (15°C)
- Solubility** : Water soluble
- Partition coefficient : octanol / water** : Not applicable
- Auto-ignition temperature** : Not applicable
- Decomposition temperature** : Not available
- Viscosity** : 4.6 mPa·s (15°C)

10.STABILITY AND REACTIVITY

- Chemical stability** : Stable
- Possibility of hazardous reactions** : Not applicable
- Conditions to avoid** : Combustion
- Incompatible materials** : Strong base / Strong acid / Oxidizing agent
- Hazardous decomposition products** : Not applicable

11. TOXICOLOGICAL INFORMATION

Acute toxicity	:	Information is not available
Skin corrosion / irritation	:	Not classified
Serious eye damage / eye irritation	:	Not classified
Respiratory or skin sensitization	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ systemic toxicity single exposure	:	Not classified
Specific target organ systemic toxicity repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

12. ECOLOGICAL INFORMATION

Toxicity	:	Information is not available.
Persistence and degradability	:	Biodegradation
Bioaccumulative potential	:	Toxicity by bioaccumulation is not reported.
Mobility in soil	:	Information is not available
Other adverse effects	:	Information is not available

13. DISPOSAL CONSIDERATIONS

Comply with all federal, state and local regulations.

14. TRANSPORT INFORMATION

Land	:	Confirm no leak in vessel / container; Load cargo carefully to avoid falling and damage.
Marine	:	Non-hazardous material
Aviation	:	Non-hazardous material, not regulated by the IATA Dangerous Goods Regulations(IATA DGR)
UN classification	:	Not applicable

15. REGULATORY INFORMATION

The compounds in the product are not under the Montreal Protocol, the Stockholm Convention and the Rotterdam Convention.

16. OTHER INFORMATION

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