

Material Safety Data Sheet

1. Article and Corporate Identification

1.1. Product:

EcoXtreme Ink, AI-ML&AI-CL

1.2. Manufacturer/Distributor:

Manufacture's name: Roland DG Corporation
 Address: 1-6-4 Shinmiyakoda Hamamatsu-shi
 Shizuoka 431-2103
 JAPAN
 Phone: + 81-53-484-1224
 Fax: + 81-53-484-1221

1.3. Medical Emergency Number

Not Available

2. Composition Information

This is a solvent ink formulation

Ink Composition	CAS No.	% By Weight
Diethylene glycol mono butyl ether acetate	124-17-4	>98%

3. Hazard Identification

3.1 Emergency Overview:

Ink component is a colorless liquid that cause eye, nose or throat irritation, and that effects anesthesia, if inhales. Ink may flush, when under high temperature. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water.

3.2 Potential Health Effects:

Eye: Ink contact with eye will be irritating. See Section 11 for Toxicology.
 Skin: Ink contact with skin may cause minimally irritation. See Section 11 for Toxicology.
 Inhalation: Intentional exposure to ink vapors (mist) will cause respiratory irritation and anesthesia. See Section 11 for Toxicology.
 Ingestion: May cause upset stomach. See Section 11 for Toxicology.

4. First Aid Measures

4.1 Eyes: Immediately flush with room temperature, low pressure, clean water for at least 15 minutes. Seek medical attention if eye irritation continues.
 4.2 Skin: Wash surface areas with soap and water. Wash soiled clothing before rewearing. Consult a physician if inflammation continues.
 4.3 Inhalation: Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen. Seek medical attention.
 4.4 Ingestion: Seek medical advice; and attention if stomach continues to be upset.



5. Fire Fighting Measures

- 5.1 Flammability: Combustible liquid under Hazard Communication Standard (HCS, U.S.A)
See Section 9 for Flash Point.
- 5.2 Extinguishing Media: Water spray, dry chemical, carbon dioxide or alcohol foam.
- 5.3 Fire Fighting Instructions: Extinguish to use fire fighting media or plentiful fog water. Put protection wear without fail in case of fire fighting work; do not work in the leeward.

6. Accidental Release Measures

- 6.1 Personal protections: Remove the person of the leeward. Keep away the person from periphery of the place of the leakage. Ventilate sufficiently during clean-up in case of inside of a house.
- 6.2 Methods for cleaning up: If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal. Do not dispose of waste to the sewer. Wash hands with soap and water.

7. Precautions for Safe Handling and Use

- 7.1 Handling: Use proper ventilation and no fire in work place. Put protection wear that has electrical conductivity in case of work. Keep out of reach of children and do not drink ink. Do not dismantle cartridge is dry before insertion into printer housing.
- 7.2 Storage: Do not store the cartridges in high or freezing temperatures. Keep cartridge out of direct sunlight. Do not store cartridges with oxidizing agents or explosives.
- 7.3 Specific use(s): Not specified.

8. Exposure Controls and Personal Protection

- 8.1 Engineering controls: Close system or local ventilation is recommended.
- 8.2 Exposure controls:
- 8.2.1 Occupational exposure controls:

Substance(s)	EU: ELV	ACGIH: TLV	OSHA: PEL
Diethylene glycol mono-butyl ether acetate	Not listed	Not listed	Not listed

- 8.2.1.1 Respiratory protection: Not required suitable use as setting the cartridge on the printer; however, self-contained breathing apparatus or organic canister mask is sufficient when used for work.
- 8.2.1.2 Hand protection: Not required under suitable use as setting the cartridge on the printer; however, wearing gloves is sufficient.
- 8.2.1.3 Eye protection: Not required under suitable use as setting the cartridge on the printer; however, wearing safety goggle is sufficient.
- 8.2.1.4 Skin protection: Not required under suitable use as setting the cartridge on the printer; however, wearing gloves is sufficient.
- 8.2.2 Environmental exposure control: Not established.

12. Ecological Information

- 12.1 Ecotoxicity: No data available on the adverse effects of this ink on the environment
- 12.2 Mobility: No data available on the adverse effects of this ink on the environment
- 12.3 Persistence and degradability: Good
- 12.4 Bioaccumulative potential: No data available on the adverse effects of this ink on the environment
- 12.5 Other adverse effects: Disclosure of ink and abandonment have a possibility of affecting environment. Then, cautions are required for handling. It is necessary to cope with it so that especially a product or washing water may not flow to the ground, a river, and a drain.

13. Disposal Considerations

Disposal should be in accordance with federal, state, and local requirement.

14. Transportation Information

UN Class/UN Number: Not applicable

15. Regulatory Considerations**U.S Regulation:**

TSCA Section 4(a) Final Test Rules Regulated	Diethylene glycol monobutyl ether acetate
TSCA Section 8(a) Preliminary Assessment Information Rule (PAIR)	Diethylene glycol monobutyl ether acetate
TSCA Section 8(a) Inventory Update Rule	Diethylene glycol monobutyl ether acetate
TSCA Section 12(b) One-Time Export Notification Regulated	Diethylene glycol monobutyl ether acetate
California Proposition 65	Not regulated

EU Information

Symbols and indication according to 1999/45/EC: Not applicable

Wording of Risk and Safety Phase: Not Applicable

16. Other Information

This "Material Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of precaution, but should only be used as a guide. It is subject to revision from time to time. SII Printek Inc does not warrant the completeness or accuracy of the information contained herein.