

## Material Safety Data Sheet

### 1. Article and Corporate Identification

#### 1.1. Product:

ECO-SOL MAX, ESL3-LM/ESL3-4LM

#### 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
Proprietary pigment	-	<1
Synthetic polymer	-	1-5
Diethylene glycol diethyl ether	112-36-7	55-70
Gamma-butyrolactone	96-48-0	10-20
Tetraethylene glycol, dimethyl ether	143-24-8	10-20
Tetraethylene glycol, monobutyl ether	1559-34-8	1-5
Additives	-	<1

### 3. Hazard Identification

#### 3.1 Emergency Overview:

Ink component is a magenta liquid that causes eye, nose or throat irritation, and that effects anesthesia, if inhaled.

Ink may flash, when under high temperature. Avoid contact with eyes or clothing. In the case of skin contact, wash with soap and water. Keep out of reach of children.

#### 3.2 Potential Health Effects:

Eyes: 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 irritation 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 immediate 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. Make sure 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: Proper ventilation
- 8.2 Exposure controls:
- 8.2.1 Occupational exposure control Not established
- 8.2.1.1 Respiratory protection Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.2. Hand protection Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.3 Eye protection Not required under suitable use as setting the cartridge on the printer.
- 8.2.1.4 Skin protection Not required under suitable use as setting the cartridge on the printer.
- 8.2.2 Environmental exposure control Not established





Eye irritating:	Moderate irritant (Rabbit, OECD405)*
Skin irritating:	Mild irritant (Rabbit, OECD404)*
Skin sensitizing:	Non-sensitizer (LLNA, OECD429)*

## 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:	No data available on the adverse effects of this ink on the environment
12.4 Bioaccumulative potential:	No data available on the adverse effects of this ink on the environment
12.5 Other adverse effects:	No data available

## 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

### US Regulation:

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

### EU Information

Symbols and indication according to 1999/45/EC: This ink does not meet the criteria for classification as dangerous.

## 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. Roland DG does not warrant the completeness or accuracy of the information contained herein.