

Material Safety Data Sheet

1. Article and Corporate Identification

1.1. Product:

Dye-based Ink, FDY-YE

1.2. Manufacturer/Distributor:

Manufacture's name: Roland DG Corporation
Address: 1-6-4 Shinmiyakoda, Kita-ku, Hamamatsu-shi,
Shizuoka-ken, 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 an aqueous ink formulation

Ink Composition	CAS No.	% By Weight	Risk Phrases
Proprietary dyes and pigments	-	<5	-
Proprietary organic materials	-	10-15	-
Glycerols	-	10-15	-
Diethylene glycol	111-46-6	10-15	Xn R-22
Water	7732-18-5	balance	-

3. Hazard Identification

3.1 Emergency Overview:

Ink component is a yellow 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. Consult physician if necessary.
- 4.4 Ingestion: Seek medical advice; and attention if stomach continues to be upset.

5. Fire Fighting Measures

- 5.1 Flammability: Not flammable
- 5.2 Extinguishing Media: Dry chemical or carbon dioxide
- 5.3 Fire Fighting Instructions: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6. Accidental Release Measures

- 6.1 Personal protections: No eye or skin protection required during clean-up. Use proper ventilation.
- 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: 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: Not special measures required.
- 8.2 Exposure controls:
- 8.2.1 Occupational exposure controls: Not established
- 8.2.1.1 Respiratory protection: Not required under 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:	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
DOT, IMO, or IATA:	Not hazardous classification

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 12(b) One-Time Export Notification Regulated	Not regulated
California Proposition 65	Not regulated

EU Information:

Symbols and indication according to 1999/45/EC;
The material 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 ac