

## Material Safety Data Sheet

### 1. Identification of the product and of the company/undertaking:

#### 1.1. Identification of the product:

Pigment Ink, FPG-BK

#### 1.2. Company/undertaking identification

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

### 2. Composition/information on ingredients

Ingredients: Company Secret  
(Mixture: water-soluble ink)

### 3. Hazards identification

No hazardous classification according to Council Directive 88/379/EEC

### 4. First-aid measures

Swallowed: First immediately rinse out mouth several times with water. Then drink 2-3 glasses of water. Give nothing by mouth to an unconscious person. Rest quietly in bed. Seek medical advice immediately.

Eye: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Contact lenses must be removed. Seek medical advice.

Skin: If exposures is excessive, immediately remove all contaminated clothing in contact with the affected skin areas. Wash affected skin areas with soap and water. If symptoms such as irritation persist, seek medical advice.

Inhaled: If the person breaths in a large amount of vapor, move the exposed the person to an area with fresh air. Seek medical advice immediately.

## 5. Fire-fighting measures

Flammability: None  
Suitable extinguishing media: Dry Chemical, carbon dioxide.

## 6. Accidental release measures

If spilt, use sponge to wipe up the ink. Place it in closed container for proper disposal.  
During working for clean up, put on rubber gloves and goggle to avoid contacting ink to skin and eyes.

## 7. Handling and storage

### 7.1. Handling

Under normal circumstances, ink will not come out of the cartridges.  
If ink gets into your eyes or on your skin, see **4.First -aid measures**.  
Do not shake an ink cartridge; this can cause leakage. Do not dismantle the cartridge.  
Keep ink cartridges out of the reach of children. Do not drink ink.

### 7.2. Storage

Do not leave ink cartridges in high temperature and high humidity.  
Do not expose directly to the sun.

## 8. Exposure controls/person protection

Exposure standards: None  
Engineering controls: Not applicable  
Personal protection: None required when used as intended in Roland equipment.

## 9. Physical and chemical properties

Appearance	Black liquid
Odor:	No odor
pH:	Approximately 9 at room temperature
Boiling point:	No data available
Melting point:	No data available
Flashing point:	Not detected until 110°C
Autoflammability:	None
Explosive properties:	None
Oxidizing properties:	None
Vapor pressure:	No data available
Relative density:	No data available
Solubility in water:	∞
Solubility in fat:	No data available
Partition coefficient:	No data available
Viscosity:	less than 5 mPa·s at room temperature

**10. Stability and reactivity**

Stability:	Stable
Hazardous polymerization:	Will not occur
Hazardous decomposition products:	No data available

**11. Toxicological information**

\*Based on toxicology data of chemically similar material.

Acute toxicity:	
Oral LD50:	>2,000mg/kg (Rats)*
Dermal LD50:	>2,000mg/kg (Rats)*
Irritation:	
Skin:	Non-irritating (Rabbit skin)*
Eye:	Non-irritating (Rabbit eye)*
Skin sensitization:	Non-sensitizing (Albino Guinea pig)*
Mutagenicity:	None (by Ames assay)*

**12. Ecological information**

No data available

**13. Disposal considerations**

Dispose of in accordance with federal, state and local regulations.

**14. Transport information**

No hazardous classification

**15. Regulatory information**

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**16. Other information**

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