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Transportation Fluid Cartridge (B020950-01)

MSDS Number: MSDSB020950-01-04-OT-E --- *Effective Date: 06/04/2009*

1. Product Identification

Product Name: Transportation Fluid Cartridge (B020950-01)

Synonyms: None

Use: Water-Based Transportation Fluid

2. Composition Information

This is a liquid formulation

Fluid Composition	CASNo.	%By Weight	Risk Phrase
Diethylene glycol	111-46-6	40-50%	Xn,R22
Glycerols	-	10-20%	-
Water	7732-18-5	balance	-

3. Hazards Identification

This material is classified as **harmful** under EU Directive 1999/45/EC.

3.1 Emergency Overview: This component, diethylene glycol, is harmful against children, if swallowed, seek medical advice immediately and show this sheet. Keep out of children.

3.2 Potential Health Effects:

Eyes: Material contact with eye may be minimally irritating. See Section 11 for Toxicology.

Skin: Material contact with skin may cause minimally irritation, swelling, or redness. It is not expected to cause an allergic skin reaction. See Section 11 for Toxicology.

Inhalation: Intentional exposure to the vapors may cause respiratory irritation. 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. Consult a physician if irritation continues.
- 4.3 Inhalation:** Remove subject to ventilated fresh air. Consult physician if necessary.
- 4.4 Ingestion:** Immediately give 2 glasses of water and vomiting. Never give anything by mouth to an unconscious person. Seek medical advise immediately
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5. Fire Fighting Measures

- 5.1 Flammability:** Not flammable under normal condition.
- 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.
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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.
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7. Handling and Storage

- 7.1 Handling:** Keep out of reach children and do not drink material. Do not dismantle cartridge. Make sure cartridge is dry before insertion into printer housing.
- 7.2 Storage:** Do not store the cartridge in high or freezing temperatures. Keep cartridge out of direct sunlight. Do not store cartridges with oxidizing agents or

8. Exposure Controls/Personal Protection

8.1 Engineering Controls: None required

8.2 Exposure Controls: Not applicable

8.2.1 Occupational exposure Controls: Not established

8.2.3 Environmental xposure Controls: Not established

8.3 Personal Protection: Safety goggles, protective gloves (clean gloves), protective clothing

9. Physical and Chemical Properties

Appearance: Clear liquid.

Odor: No odor

pH: about 8-9

Boiling point: Greater than 100°C

Melting point: Less than 0°C

Flash point: Not detected until 100°C

Autoflammability: None

Explosive properties: None

Oxidizing properties: None

Vapor density: No data available

Relative density: 1.10

Solubility in water: Complete

Solubility in fat: No data available

Partition coefficient: No data available

Viscosity: 9-10 mPa · s

10. Stability and Reactivity

Stability: Stable under normal temperature

10.1 Condition to avoid: High temperature

10.2 Materials to avoid: Oxidizers and explosives

10.3 Hazardous decomposition products: No data available

11. Toxicological Information

Routes of Overexposure: Eye, skin, inhalation, and oral

Acute Health Hazards:

- Overexposure of eye surface to the fluid may be mildly irritating
- Overexposure of skin to the fluid contact may cause irritation and in some people swelling and redness
- Intentional inhalation overexposure to the fluid vapors may result in respiratory tract irritation
- Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: None known

Carcinogenicity: None known

Mutagenicity: Non-mutagenic(by Ames Test)

Toxicity Data: Oral LD₅₀ Dermal LD₅₀ Inhalant LC₅₀
 >2500mg/kg(Rats) >2000mg/kg(Rats) Not Applicable

Eye irritation: Minimal irritant(Rabbit)

Skin irritation: Non-irritant(Rabbit)

Skin sensitization: Non-sensitizer(Guinea Pig)

12. Ecological Information

12.1 Ecotoxicity: No date available on adverse effects of this material

12.2 Mobility: No date available on adverse effects of this material

12.3 Persistence and degradability: No date available on adverse effects of this material

12.4 Bioaccumulative: No date available on adverse effects of this material

12.5 Other adverse effects: None

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

UN Class/UN Number: Not applicable.

DOT,IMO,or IATA :Not hazardous classification

15. Regulatory Information

US Regulations:

TSCA Section 4(a) Final Test Rules Regulated? No

TSCA Section 12(b) One-Time Export Notification Regulated? No

EU Regulations:

Symbols and indication according to 1999/45/EC:

Xn

Harmful



Wording of Risk and Safety Phrase:

R22:Harmful if swallowed.

S2:Keep out of the reach of children.

S46:If swallowed, seek medical advice immediately and show this sheet.

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 preparation, but should only be used as a guide. It is subject to revision from time to time.

Revision Information: Initial MSDS Development.

Disclaimer:

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