



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Ink Cartridge
Product Number: 9374
Chemical Name: mixture
CAS Number: 0-00-0

Company Identification

Ricoh Corporation
5 Dedrick Place
West Caldwell, NJ 07006 USA
1-973-882-2000 or 1-973-882-5218 (For product information)
1-800-336-6737 (For emergencies)

GENERAL USE:

3610.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
WATER	70.0 - 90.0 %	7732-18-5
GLYCERIN	5.0 - 10.0 %	56-81-5
WATER-SOLUBLE ORGANIC SOLVENT	5.0 - 10.0 %	
WATER-SOLUBLE ORGANIC COMPOUND	5.0 - 10.0 %	
ISOPROPYL ALCOHOL	< 5.0 %	67-63-0

EXPOSURE GUIDELINES:

Glycerin

OSHA TWA: 15 mg/m³

Isopropyl Alcohol

OSHA PEL: 400 ppm, 980 mg/m³

OSHA TWA: 400 ppm, 980 mg/m³

ACGIH TWA: 400 ppm, 983 mg/m³

3. HAZARDS IDENTIFICATION

ACUTE EYE EFFECTS:

No specific hazard is known.

ACUTE SKIN EFFECTS:

May cause slight irritation.

ACUTE INHALATION EFFECTS:

No specific hazard is known under usual use condition.

ACUTE INGESTION EFFECTS:

May be harmful if swallowed.

CARCINOGENICITY:

No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA (USA) regulation and Annex I to Directive 67/548/EEC.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Flush with plenty of water.

SKIN CONTACT FIRST AID:

Wash with water and soap.

INHALATION FIRST AID:

If person breathes in large amounts, remove to fresh air. Get medical attention.

INGESTION FIRST AID:

Call a physician.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

TCC Flash Point: 61 C (141.8 F)

Autoignition Temperature: 475 C (887.0 F)

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

EXTINGUISHING MEDIA:

Water, CO2, dry chemicals.

6. ACCIDENTAL RELEASE MEASURES

SPILL / LEAK PROCEDURES:

Wipe off with paper or wet cloth.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Do not take internally.

STORAGE REQUIREMENTS:

Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION:

Not required.

RESPIRATORY PROTECTION:

Not required.

PROTECTIVE CLOTHING / EQUIPMENT:

Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Liquid
COLOR: Black
ODOR: mild odor
BOILING POINT: No data available C
VAPOR PRESSURE: No data available psia
VAPOR DENSITY: No data available (Air = 1)
SOLUBILITY IN WATER: Miscible
SPECIFIC GRAVITY: 1.04 (Water = 1)
PH: 6 to 10
% VOLATILES: - %

10. STABILITY AND REACTIVITY

STABILITY:

Stable.

POLYMERIZATION:

Will not occur.

CHEMICAL INCOMPATIBILITIES:

None.

HAZARDOUS DECOMPOSITION PRODUCTS:

Ammonia in concentration less than 1%.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:

rabbit (US 16 CFR 1500.42): Negative.

SKIN EFFECTS:

rabbit (US 16 CFR 1500.41): Mildly irritating, the Primary Irritation Index (PII)= 0.3.

ACUTE ORAL EFFECTS:

oral, rat (OECD Guidelines No.401 and US 16 CFR 1500.3): LD50 >5000mg/kg animal body-weight.

dermal, rat (OECD Guidelines No.402 and US 16 CFR 1500.40): LD50 >2000mg/kg animal body-weight.

CARCINOGENICITY:

No human carcinogen or potential carcinogen, according to IARC Monographs, NTP, OSHA (USA) regulation and Annex I to Directive

67/548/EEC.

MUTAGENICITY:

Negative (test strains: S. typhimurium).

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:

Disposal may be subject to federal, state and local laws.

14. TRANSPORT INFORMATION

PRODUCT LABEL ...: Ink Cartridge

15. REGULATORY INFORMATION

Canadian Disclosure List

Isopropyl Alcohol (67-63-0)

SARA Title III - Section 313

Isopropyl Alcohol (67-63-0)

Title V

Isopropyl Alcohol (67-63-0)

16. OTHER INFORMATION

PREPARED BY: David Huelbig
APPROVED BY: David Huelbig
TITLE: Safety Engineer
APPROVAL DATE: July 25, 2003
SUPERCEDES DATE ...: New
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