



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Priport Black Ink HQ40
Product Number: 893188
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:

JP4500, DX 4542.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

| Chemical Name | Amount | CAS Number |
|-------------------|---------------|------------|
| PETROLEUM SOLVENT | 12.0 - 16.0 % | 64742-71-8 |
| CARBON BLACK | 7.0 - 11.0 % | 1333-86-4 |
| PETROLEUM SOLVENT | 4.0 - 8.0 % | 64742-52-5 |
| ETHYLENE GLYCOL | 3.0 - 7.0 % | 107-21-1 |
| WATER | 64.0 - 68.0 % | 7732-18-5 |

EXPOSURE GUIDELINES:

Carbon Black

OSHA PEL: 3.5 mg/m³
ACGIH TWA: 3.5 mg/m³

Petroleum Solvent

OSHA TWA: 5 mg/m³
ACGIH TWA: 5 mg/m³

3. HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTES:

Skin, ingestion.

ACUTE INGESTION EFFECTS:

Rat: >5000 mg/kg.

CARCINOGENICITY:

Carbon Black was reclassified as a Group 2B by IARC in 1996 based on the result of only the inhalation study in rats. However there was not observed the incidence of tumors on the test results on dermal or oral studies. There will be no possibility to inhale the carbon black which will not be released from the product as a volatile ingredient.

MEDICAL CONDITION AGGRAVATED BY LONG-TERM EXPOSURE:

Not applicable.

CHRONIC EFFECTS:

No data is available on this product.

4. FIRST AID MEASURES

EYE CONTACT FIRST AID:

Immediately wash eyes with large amounts of water.

SKIN CONTACT FIRST AID:

Wash thoroughly with soap and water.

INHALATION FIRST AID:

Not applicable.

INGESTION FIRST AID:

Induce vomiting after drinking tepid water.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: 420 C (788.0 F)

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

BURNING RATE:

Not available.

EXTINGUISHING MEDIA:

Foam, water spray (mist), dry chemicals, or carbon dioxide may be suitable.

FIRE FIGHTING INSTRUCTIONS:

No special fire protecting method is required.

6. ACCIDENTAL RELEASE MEASURES

SPILL / LEAK PROCEDURES:

If spilled, wipe up with paper or cloth.

MISCELLANEOUS:

Keep product out of sewers and watercourses.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Keep out of reach of children.

STORAGE REQUIREMENTS:

Keep away from heat, open flame and sparks.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION:

None needed under normal use condition.

RESPIRATORY PROTECTION:

None required under normal conditions of use.

PROTECTIVE CLOTHING / EQUIPMENT:

None required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------|---------------------------|
| FORM: | Paste |
| COLOR: | Black |
| ODOR: | No strong odor is allowed |
| BOILING POINT: | Not available C |
| VAPOR PRESSURE: | Not applicable psia |
| VAPOR DENSITY: | Not available (Air = 1) |
| SOLUBILITY IN WATER: | Insoluble |
| MELTING/FREEZING POINT: | Not applicable C |
| PH: | Not applicable |
| % VOLATILES: | - % |

10. STABILITY AND REACTIVITY

POLYMERIZATION:

None.

CONDITIONS TO AVOID:

Not applicable in normal use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS:

Rat: >5000 mg/kg.

CARCINOGENICITY:

In 1996 IARC reevaluated Carbon Black as a Group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon

black for which there is inadequate human evidence, but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at levels that induce particle overload of the lung. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, 2-years cancer bioassay using a typical toner preparation containing carbon black did not demonstrate an association between toner exposure and tumor development in rats.

MUTAGENICITY:

Negative (Ames test).

TERATOGENICITY:

No data.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DEGRADATION:

Not known.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:

Used product should be disposed of in an environmentally appropriate manner.

14. TRANSPORT INFORMATION

PRODUCT LABEL: Priport Black Ink HQ40

15. REGULATORY INFORMATION

Canadian Disclosure List

Ethylene Glycol (107-21-1)

SARA Title III - Section 313

Ethylene Glycol (107-21-1)

Title V

Ethylene Glycol (107-21-1)

SC Toxic Air Pollutants List

Ethylene Glycol (107-21-1)

16. OTHER INFORMATION

HMIS Rating:

Health - 1
Flammability - 1
Reactivity - 0

APPROVED BY: David Huelbig
TITLE: Safety Engineer

APPROVAL DATE: August 31, 2004
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