



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product Name: Ricoh Color LP Toner Cartridge Type 145 Yellow HY
Product Number: 888309
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:

Aficio CL4000DN.

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT LISTING:

| Chemical Name | Amount | CAS Number |
|-----------------|---------------|------------|
| POLYESTER RESIN | 60.0 - 90.0 % | |
| WAX | 1.0 - 10.0 % | 8015-86-9 |
| ORGANIC PIGMENT | 1.0 - 10.0 % | 77804-81-0 |

EXPOSURE GUIDELINES:

No Information Available.

3. HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTES:

Inhalation, ingestion.

CARCINOGENICITY:

This product does not contain the carcinogenic substances which are listed in NTP, IARC and are regulated by OSHA.

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 plenty of water. If unsuccessful, get medical attention.

SKIN CONTACT FIRST AID:

Wash thoroughly with soap and water.

INHALATION FIRST AID:

Gargle with water, move to place in fresh air. If unsuccessful, get medical attention.

INGESTION FIRST AID:

Dilute stomach contents with several glasses of water. If unsuccessful, get medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

COC Flash Point: N/A

Autoignition Temperature: N/A

FLAMMABLE LIMITS IN AIR

LEL: N/A

UEL: N/A

BURNING RATE:

Not available.

EXTINGUISHING MEDIA:

CO2, dry chemicals, foam or water.

FIRE FIGHTING INSTRUCTIONS:

Generally by sprinkling or extinguisher.

6. ACCIDENTAL RELEASE MEASURES

SPILL / LEAK PROCEDURES:

If spilled, sweep up or pick up by vacuum cleaner (rated for toner extraction).

MISCELLANEOUS:

Minimize inhalation of dust. Keep product out of sewers and watercourses.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS:

Do not handle in areas where wind blows. Flying powder may enter eyes. Minimize breathing dust.

STORAGE REQUIREMENTS:

Avoid direct sunlight. Do not keep this over 35C. Keep out of reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

VENTILATION:

None needed under normal use condition.

RESPIRATORY PROTECTION:

Use an approved dust respirator for concentrations in excess of the applicable exposure limits.

PROTECTIVE CLOTHING / EQUIPMENT:

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in prolonged or repeated skin contact.

Put on goggles. Use vinyl or rubber gloves if necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------------|--------------------------|
| FORM: | Powder |
| COLOR: | Yellow |
| ODOR: | slight plastic odor |
| BOILING POINT: | Not applicable C |
| VAPOR PRESSURE: | Not applicable psia |
| VAPOR DENSITY: | Not applicable (Air = 1) |
| SOLUBILITY IN WATER: | Insoluble |
| MELTING/FREEZING POINT: | Not applicable C |
| PH: | Not applicable |
| % VOLATILES: | 0.2 % |
| VISCOSITY: | Not applicable |
| EVAPORATION RATE: | Not applicable |
| DENSITY (G/CM ³): | approx. 1.2 |

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 (LD₅₀): >5000mg/kg.

CARCINOGENICITY:

No data is available on this product.

MUTAGENICITY:

Negative (Ames test).

TERATOGENICITY:

Not available.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DEGRADATION:

Not known.

MISCELLANEOUS:

Not known in bioaccumulation.

13. DISPOSAL CONSIDERATIONS

DISPOSAL:

Used toner should be disposed of in an environmentally appropriate manner and in accordance with governmental regulations. Do not incinerate.

14. TRANSPORT INFORMATION

PRODUCT LABEL: Ricoh Color LP Toner Cartridge Type 145 Yellow HY

MISCELLANEOUS:

Avoid direct sunlight. Do not keep this over 35C.

15. REGULATORY INFORMATION

No information available.

16. OTHER INFORMATION

HMIS Rating:

Health - 1
Flammability - 1
Reactivity - 0

APPROVED BY: David Huelbig
TITLE: Safety Engineer
APPROVAL DATE: October 12, 2004
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