

RICOH MATERIAL SAFETY DATA SHEET

RICOH Toner Cassette Type 150

Date Prepared : 1/18/01

MSDS Number : 339479

Product Number: 339479

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Product Identification****Product Name :** RICOH Toner Cassette Type 150**Product Number :** 339479**Chemical Name :** Mixture**CAS Number :** 0-00-0**Company Identification****Company Name :** Ricoh Corporation**Address :** 5 Dedrick Place

West Caldwell, NJ USA

Emergency telephone Number : (800)336-MSDS (6737)**Telephone Number for Information :** (973)882-5218**SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS**

Ingredients	CAS #	Contents %	ACGIH (TLV)			OSHA (PEL)	
			TWA	STEL	C	TWA	C
Styrene Acrylic Polymer	25036-19-5	10-40	N/A	N/A	N/A	N/A	N/A
Polyester Resin	(confidential)	10-40	N/A	N/A	N/A	N/A	N/A
Polyolefine	9003-07-0	<5	N/A	N/A	N/A	N/A	N/A
Iron Oxide	1317-61-9	20-50	N/A	N/A	N/A	N/A	N/A
Dye	31714-55-3	<5	N/A	N/A	N/A	N/A	N/A

SECTION 3 HAZARDS IDENTIFICATION**Emergency Overview**

HMIS Health = 1 Flammability = 1 Reactivity = 0 PPE : See Section 8

Potential Health Effects**Primary Entry Routes** Inhalation : No

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Skin : No

Ingestion : No

Carcinogenicity : This products dose not contain the carcinogenic substances which are listed in NTP, IARC and are regulated by OSHA.

Medical Conditions Aggravated by Exposure : Not Applicable

Chronic Effects : No Data is available on this product.

SECTION 4 FIRST AID MEASURES

Inhalation : Gargle with water, move to place in fresh air. If unsuccessful, get medical attention.
Skin contact : Wash thoroughly with soap and water.
Eye Contact : Try to remove with eye drops or flush with water. If unsuccessful, get medical attention
Ingestion : Dilute stomach contents with several glasses of water. If unsuccessful, get medical attention.

SECTION 5 FIRE-FIGHTING MEASURES

Flash Point Not applicable
Burning Rate (mm/sec) Not applicable
Autoignition Temperature (C) Not applicable
Flammable Limits (%) LEL Not applicable
UEL Not applicable

Extinguishing Media : Foam, water spray (mist), dry chemical or carbon dioxide may be suitable.

Fire-Fighting Instructions : No special fire protecting method is required.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions : Minimize inhalation of dust.
Environment Precautions : Keep product out of sewers and watercourses.
Method for Cleaning up : If spilled, sweep up or pick up by vacuum cleaner(rated for toner extraction).
Remove residue with soap and water.

SECTION 7 HANDLING AND STORAGE

Handling (technical measures, precautions, safe handling material)

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

Storage (technical measures, storage condition, packaging material)

Avoid direct sunlight.
 Do not keep this over 35C (95F)
 Keep out of reach children.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation	Local exhaust equipment is needed.
Respiratory Protections (Specify type)	None required under normal conditions of use.
Eye Protection :	None required under normal conditions of use.
Protective Gloves	None required under normal conditions of use.
Protective Clothing or Equipment	None required under normal conditions of use.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Form	Powder
Color	Black
Odor	Slightly plastic odor
pH	Not applicable
Boiling Point (C)	Not applicable
Vapor Pressure(Pa)	Not applicable
Vapor density(Air=1)	Not applicable
Density (g/cm3)	1.8 approximately
Formula Weight	Not applicable
Melting Point (C)	Not applicable
Viscosity (Pa)	Not applicable
Volatile (%)	-
Evaporation Rate(n-BuAc=1)	Not applicable
Water Solubility (g/L)	Not applicable
Other Solvent name	-
Other Solvent Solubility(g/L)	-

SECTION 10 STABILITY AND REACTIVITY

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Stability	Stable
Condition to Avoid	Not applicable in normal use.
Material to Avoid	Not applicable in normal use.
Hazardous Polymerization	None
Hazardous Decomposition or Byproducts	Styrene

SECTION 11 TOXICOLOGICAL INFORMATION**Acute Toxicity**

Acute Oral Toxicity :	>= 5000 mg/kg (Rat)
Acute Dermal Toxicity :	Not available
Acute Inhalation Toxicity :	Not available

Sensitization

Acute Skin Irritation :	Non-irritant
Acute Eye Irritation :	Not applied
Acute Allergenic Effects :	Non-skinsensitive

Special Effects

Carcinogenicity	No data is available on this product.
Mutagenicity	Negative
Effects on the reproductive system	No data is available on this product.
Teratogenic	No data

SECTION 12 ECOLOGICAL INFORMATION

Persistence/Degradability	Not known
Bioaccumulation	Not known in bioaccumulation
Ecotoxicity	
Acute toxicity for Fish	>= 500 mg/kg/96hr
Acute toxicity for daphnia	Not applicable
Algae inhibition test	Not applicable

SECTION 13 DISPOSAL CONSIDERATION**Recommended Methods for safe Environmentally Preferred Disposal**



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

SECTION 14 TRANSPORT INFORMATION

International regulations

RID/ADR	Not applicable
DOT 49 CFR	Not applicable
ADNR	Not applicable
IMDG Code	Not applicable
ICAO-TI/ATA-DGR	Not applicable
The UN Classification Number	Not applicable

Specific Precautionary Transport Measures Avoid direct sunlight. Do not keep this over 35C (95F)

Specific Materials to Avoid None in normal use.

SECTION 15 REGULATION INFORMATION

Regulation : Not known

SECTION 16 OTHER INFORMATION

Explanation of Hazardous Materials Identification System (HMIS) & National Fire Protection Association (NFPA) hazard rating systems :

Both the HMIS and NFPA systems use number from "0" to "4" to show the degree of hazard in an uncontrolled situation:

0=Minimum hazard 1=Slight hazard 2=Moderate hazard 3=Serious hazard 4=Severe hazard.

Colors may also be used in both systems :

Blue= Health hazard Red= Fire hazard Yellow= Reactivity hazard White= Indicate a special hazard.

HMIS will specify any Personal Protective Equipment required (PPE).

NFPA will specify OX(oxidizer), Acid(acid), ALK(alkali), COR(corrosive), W(use no water), xx(radioactive).

References:

IARC(1996) "IARC Monograph on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol.65, Printing Process and Printing Inks, Carbon Black and some Nitro Compounds", Lyon, pp149-261