

# **Material Safety Data Sheet**

(ISO form)

Date prepared 08/05//2001

# 1. Product and Company Identification

Product Name: RICOH COLOR LP TONER CASSETTE TYPE 105 YELLOW

Company Name: Ricoh Company Ltd.

Department: Environment Safety Center, Corporate Environment Office Address: 3-6, Naka-magome 1-Chome Ohta-ku, Tokyo 143-8555 Japan

Tel. Number: 03-3777-8183, Japan Emergency Tel.: 03-3777-8183, Japan 03-3777-0811, Japan 03-3777-0811, Japan

# 2. Composition/Information on Ingredients

Substance or Preparation Preparation

**Chemical Nature** 

Ingredients	CAS.No.	Contents (%)
Polyole Resin	259794-70-2	>70
Polyole Resin	186359-26-2	<20
Organic Pigment	77804-81-0	<10
Organic Salt	42405-40-3	<5

Components contributing to the Hazard Applicable for it mentioned below

Their Chemical or Generic Name/Their Concentration or Concentration Range Not relevant %

# 3. Hazards Identification (Most Important Hazard)

Adverse Human Health Effects

Not applicable in normal use.

Carcinogenicity

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

**Environmental Effects** 

Not applicable in normal use.

Physical and Chemical Hazards

Not applicable in normal use.

The Classification of the Chemical Product Not applicable



#### 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.

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

#### 5. Fire-Fighting Measures

Extinguishing Media

CO<sub>2</sub>, dry chemicals, foam or water

Specific Method

Generally by sprinkling or extinguisher

#### 6. Accidental Release Measures

**Personal Precautions** 

Minimize inhalation of dust.

**Environment Precautions** 

Keep product out of sewers and watercourses

Methods for Cleaning Up

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

#### 7. Handling and Storage

Handling (technical measures, precautions, safe handling material)

Do not handle in 'windy' areas, since flying powder may enter eyes.

Minimize breathing dust.

Storage (technical measures, storage conditions, packaging material)

Avoid direct sunlight.

Do not store at temperatures over 35 °C

Keep out of reach of children.

#### 8. Exposure Controls/Personal Protection

Respiratory Protections

None required under normal conditions of use.

Hand Protection

None required under normal conditions of use.



**Eye Protection** 

None required under normal conditions of use.

Skin and Body Protection

None required under normal conditions of use.

#### 9. Physical and Chemical Properties

Physical State Form: Powder

Color: Yellow

Odor: Slight plastic odor

Information

Ha : not applicable Measuring Temp.(°C) :-

Boiling Point(°C) : not applicable Flash Point (°C) not available

: This product is considered a non-explosive material Explosion Properties (°C)

under normal use condition.

Vapor Pressure(Pa) :not applicable Measuring Temp.(°C)

Vapor Density(AIR=1) :not applicable

Density (g/cm3) :approx. 1.2 Measuring Temp. (°C) : 25

Solubility

: Insoluble

Water Śolubility(g/L) Water Solubility Measuring Temp. (°C) : 25 Other Solvent name : -Other Solvent Solubility(g/L) Other Solvent Solubility Measuring Temp. (°C):-

Octanol/Water Partition Coefficient

Not known

#### 10. Stability and Reactivity

Conditions to Avoid

Not applicable in normal use.

Materials to Avoid

Not applicable in normal use.

**Hazardous Decomposition Products** 

Will not occur

#### 11. Toxicological Information

**Acute Toxicity** 

**Acute Oral Toxicity** : Rat: >5000mg/kg Acute Dermal Toxicity : not available Acute Inhalation Toxicity : not available

Sensitization

Acute Skin Irritation : None irritant (main ingredients)

Acute Eve Irritation : not applied

Acute Allergenic Effects: : 0%



Specific Effects

Carcinogencity

No data is available on this product

Mutagenicity:

Negative (Ames test)

Effects on the Reproductive System:

No data is available on this product.

Teratogenic

No data is available on this product

## 12. Ecological Information

Persistence/Degradability: not known

Bio-accumulation not known in bio-accumulation

**Ecotoxicity** 

Acute Toxicity for Fish not available (mg/kg/96hr)
Acute Toxicity for Daphnia: not available (mg/kg/48hr)
Algae Inhibition Test: not available (mg/kg/72hr)

# 13. Disposal Consideration

Recommended Methods for Safe Environmentally Preferred Disposal

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

# 14. Transport Information

International Regulations

RID/ADR: not applicable

DOT 49 CFR: not applicable

ADNR
IMDG Code
ICAO-TI/IATA-DGR
The UN Classification Number

not applicable
not applicable
not applicable
not applicable

Specific Precautionary Transport Measures

Avoid direct sunlight and do not store over 35°C (for quality issues)

Specific Materials to Avoid None in normal use.

# 15. Regulation Information

Regulations Not known



# 16. Other Information

### References:

1) 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

Name and Position: Sumio Matsuura

General Manager

Quality Assurance Department Chemical Products Business Group

Ricoh Company Ltd.