



MATERIAL SAFETY DATA SHEET

Page:1/6

MSDS No.: MFP-2223

Product Name: TONER (YELLOW) TN611Y

Prepared date:14-Jun-2006

Revised Date: 19-Jan-2007

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TONER (YELLOW) TN611Y

used for: C650/C550/C451

Supplier Identification:

Konica Minolta Business Solutions U.S.A., Inc.

100 Williams Drive, Ramsey, New Jersey 07446, U.S.A.

Telephone: 201-825-4000

Emergency Telephone No.

CHEMTREC

Telephone: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance [] Preparation [X]

Major Ingredients:

[Generic Name]	[CAS No.]	[%]
Styrene acrylic resin	+++	75-85
Wax	+++	10-20
Wax-2	+++	1-10
Organic pigment	+++	1-10
Amorphous silica	7631-86-9	1-10
Titanium oxide	13463-67-7	<1

+++ : Supplier's confidential information

Hazardous Ingredients:

None present

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3. HAZARDS IDENTIFICATION

Emergency Overview: Yellow powder (mean dia. is 5-10um by volume).
Almost odorless

Classification: Not classified as dangerous. (1999/45/EC)

Most Important Hazards and Effects of the Products

Ingestion Effect: None currently known.

Inhalation Effect: None currently known. Minimal respiratory tract irritation may occur as with exposure to large amount of any non-toxic dust.

Eye Effect: None currently known.

Skin Effect: None currently known.

Chronic Effects: Prolonged inhalation of excessive dusts may cause lung damage. Use of this product, as intended, does not result in inhalation of excessive dust.

Environment Hazards: No data are available on the adverse effects of this product on the environment.

Specific Hazards: Dust explosion(like most finely divided organic powders)

4. FIRST-AID MEASURES

Ingestion: Wash out mouth with water. Drink one or two glasses of water.
If symptoms occur, get medical attention.

Inhalation: Move victim to fresh air immediately. If symptoms occur, get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes.
If symptoms occur, get medical attention.

Skin Contact: Wash with water and mild soap.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO2, water spray, foam and dry chemical

Extinguishing Media to Avoid: Full water jet

Fire and Explosion Hazards: If dispersed in air, like most finely divided organic powders, may form an explosive mixture.

Protection of Firefighters: Use self-contained breathing apparatus(SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: None

Methods for Cleaning Up: Wear personal protective equipment

(See Section 8). Vacuum or sweep material and place in a bag and hold for waste disposal. Use vacuum equipped with High Efficiency Particulate Air(HEPA) filter. Vacuum should be electrically bonded and grounded to dispel static electricity. To avoid dust generation, do not sweep dry.

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7. HANDLING AND STORAGE

Handling

Technical Measures: None

Precautions: Do not breathe dust. Avoid contact with eyes.

Safe Handling Advice: Try not to disperse the particulates.

Storage

Technical Measures: None

Storage Conditions: Keep container closed. Store in a cool and dry place.

Keep out of reach of children.

Incompatible Products: None

Packaging Materials: Bottles or Cartridge designated by Konica Minolta.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures

Ventilation: None required with intended use.

Control Parameters(As total dust)

OSHA-PEL(USA): 15mg/m³

ACGIH-TLV(USA): 10mg/m³

DFG-MAK(GER): 4mg/m³

Worksafe-TWA(Austl.): 10mg/m³

Personal Protective Equipment

Not required under normal conditions. For use other than in normal operating procedures (such as in the event of large spill), goggles and respirators may be required.

Hygiene Measures: Wash hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid

Color: Yellow

Form: Powder (mean dia. is 5-10um by volume)

Odor:

Almost odorless

PH

Not applicable

Boiling Point(°C):

Not applicable

Melting Point(°C):

Around 125C(275F) (Softening Point)

Flash Point(°C):

Not applicable

Ignition Temperature(°C):

No data available

Explosion Properties:

No data available

Vapor Pressure:

Not applicable

Specific Gravity:

1.2

Solubility:

Insoluble in water.

Partition Coefficient, n-Octanol/Water: Not applicable

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10. STABILITY AND REACTIVITY

Stability: Stable except above 200C(392F).

Hazardous Reactions: Dust explosion, like most finely divided organic powders.

Conditions to avoid: Electric discharge, throwing into fire.

Materials to Avoid: Oxidizing materials.

Hazardous Decomposition Products: CO, CO₂, NO_x and smoke.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion(oral), LD₅₀(mg/kg): >2500 (Rat) *

Dermal, LD₅₀(mg/kg): No data available

Inhalation, LC₅₀(mg/l): >5.09 (Rat) *(This was the highest attainable concentration.)

Eye irritation: Non irritant (Rabbit) *

Skin irritation: Non irritant (Rabbit) *

Skin sensitizer: Non sensitizer (Guinea pig) *

(* = Based on data for other Konica Minolta Products with similar ingredients)

Local Effects: see Chronic Toxicity or Long term Toxicity

Chronic Toxicity or Long Term Toxicity:

Prolonged inhalation of excessive dust may cause lung damage. It is attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. Use of this product, as intended, does not result in inhalation of excessive dust.

In a study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of rats in the high concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle(4mg/m³) exposure group. But no pulmonary change was reported in the lowest(1mg/m³) exposure group, the most relevant level to potential human exposures.

Carcinogenicity

IARC Monographs: Not listed

NTP(USA): Not listed

OSHA Regulated(USA): Not listed

Mutagenicity: Negative* (AMES test)

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12. ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment.

Ecotoxicity: No data available

Mobility: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

13. DISPOSAL CONSIDERATION

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method.

14. TRANSPORT INFORMATION

Information on Code and Classifications According to International Regulations

UN Classification: None

15. REGULATORY INFORMATION

US Information

Information on the label: Not required

TSCA(Toxic Substances Control Act):

All chemical substances in this product comply with all applicable rules or order under TSCA.

California Proposition 65:

This product contains no chemical substances subject to California Proposition 65.

EU Information

Information on the label (1999/45/EC and 67/548/EEC): Not required

Article14 (2.1) of Directive 1999/45/EC is not applicable to this product.

16. OTHER INFORMATION

HMIS Rating: The National Paint and Coating Association(USA):

Health: 1 Flammability: 1 Reactivity: 0

Recommended Uses: Toner for Electrophotographic Equipment

Revision Information: Regular revision on revised date.

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Literature References:

ANSI Z400.1-1993

ISO 11014-1

Commission Directive 91/155/EEC

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.MacKenzie, P.Morrow, U.Mohr, S.Takenaka, and R.Mermelstein(1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

Restrictions:

The above information is believed to be accurate and represents the best information currently available to Our Corporation. However, Our Corporation makes no warranty with respect to such information, and Our Corporation assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.
