



MATERIAL SAFETY DATA SHEET: 2002800310US
 Date Prepared: October 3, 2002
 Date(s) Revised:

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KONICA TONER Cyan TN302C 8020/8031 960-849
 Company Name: Konica Business Technologies, Inc.
 500 Day Hill Road, Windsor, CT 06095, U.S.A.
 Telephone Number: TEL: 860-683-2402 x 2093 FAX: 860-902-7637
 Emergency Telephone Number: CHEMTREC 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	wt. %
Styrene-acrylic resin	Trade Secret	80 - 90
Wax	Trade Secret	10 - 20
Organic Pigment	Trade Secret	1 - 10
Silica (amorphous)	7631-86-9	1 - 10
Strontium titanate	12060-59-2	1 - 10

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

 * Blue powder (mean diameter is about 6.5um by volume). Almost *
 * odorless. *

POTENTIAL HEALTH EFFECTS

Eye Effects: None currently known.
 Skin Effects: None currently known.
 Ingestion Effects: None currently known.
 Inhalation Effects:
 None currently known. Minimal respiratory tract irritation may occur as with exposure to large amount of any non-toxic dust.
 Chronic Effects/ Carcinogenicity:
 No identified health effects. None of the components in this material is listed by IARC, EU, or ACGIH as a carcinogen.

4. FIRST AID MEASURES

Eye: Immediately flush eyes with plenty of water for 15 minutes. If symptoms occur, get medical attention.
 Skin: Wash with water and mild soap.
 Ingestion: Wash out mouth with water. Drink one or two glasses of water. If symptoms occur, get medical attention.
 Inhalation: Remove victim to fresh air. If symptoms occur, get medical attention.

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5. FIRE FIGHTING MEASURES

Flash Point: Not applicable.
 Method Used: Not applicable.
 Flammable Limits: Not applicable.
 Autoignition
 Temperature: Not applicable.
 Flammability
 Classification: Not applicable.
 Unusual Fire and
 Explosion Hazard: Will burn if involved in a fire.
 Extinguishing Media: Water spray, dry chemical, foam.
 Fire Fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. If fire is in the machine treat as an electric fire, do not use water or foam.
 Hazardous Combustion
 Products: Carbon monoxide, carbon dioxide, and smoke.

6. ACCIDENTAL RELEASE MEASURES

Spill and Leakage Procedures:
 Wear personal protective equipment(See Section 8). Minimize the release of particulates. Sweep or vacuum material, place in a bag and hold for waste disposal. Use vacuum with HEPA filter. Vacuum should be electrically bonded and grounded to dissipate static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

Handling:
 Keep out of reach of children. Avoid contact with eyes.
 Prevention of Fire and Explosion:
 Keep away from heat, sparks and flame.
 Storage:
 Keep container tightly closed. Store in a cool and dry place. Keep away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		
	TWA	STEL	OSHA PEL
Styrene-acrylic resin	None established		None established
Wax	None established		None established
Organic Pigment	None established		None established
Silica(amorphous)	10mg/m3		80mg/m3
Strontium titanate	None established		None established

Engineering Controls: Not required under normal conditions.
 Respiratory Protection: 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.
 Skin Protection: Not required under normal conditions.
 Eye Protection: Not required under normal conditions.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue powder (mean diameter is about 6.5um by volume)
Odor: Almost odorless.
pH: Not applicable.
Vapor Pressure: Not applicable.
Vapor Density: Not applicable.
Evaporation Rate: Not applicable.
Boiling Point: Not applicable.
Melting Point: Around 125°C {~257°F } (Softening point).
Solubility: Insoluble in water.
Specific Gravity: 1.20

10. STABILITY AND REACTIVITY

Stability: Stable except above 200°C {392°F }.
Incompatibility: Oxidizers.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and smoke.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION:

Product

Acute oral toxicity: LD50:>2000mg/kg[rat]. (Data for similar product).
Inhalation: LC50:>5.17mg/m3/4hrs[rat] (This value is highest attainable with aerosol generation apparatus). (Data for similar product).
Eye irritation: Minimal irritant[rabbit]. (Data for similar product).
Skin irritation: Non-irritant[rabbit]. (Data for similar product).
Skin sensitization: Non-sensitizing[guinea pig]. (Data for similar product).
Chronic Effects/Carcinogenicity: No data for product.

Mutagenicity: Ames test: Negative. (Data for similar product).

Ingredients:

Wax

Mutagenicity: Ames test: Negative.

Organic Pigment

Mutagenicity: Ames test: Negative.

Silica {Amorphous}

Acute oral toxicity: LD50: 3160mg/kg[rat].

Mutagenicity: Ames test negative.

12. ECOLOGICAL INFORMATION: No data available.

13. DISPOSAL CONSIDERATIONS:

When disposing of the waste or recovered material, consult federal, state and/or local regulations for the proper disposal method. Do not discard toner cartridges into fireplace or heating stove.

14. TRANSPORT INFORMATION: DOT/TDG CLASS: Not Regulated.

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15. REGULATORY INFORMATION:

OSHA Hazard Communication Standard, 29CFR 1910.1200:

This product is NOT considered hazardous under this standard.

CERCLA (Comprehensive Environmental Response Compensation and Liability Act):
None.

SARA Title III (Superfund Amendments and Reauthorization Act):

302 Extreme Hazardous Substance: None.

311/312 Hazard Categories: None.

313 Reportable Ingredients: None.

TSCA (Toxic Substance 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.

16. OTHER INFORMATION:

HMIS Hazard Rating Health: 1, Flammability: 1, Reactivity: 0

References

IARC (1996) IARC Monographs on the Evaluation of the Carcinogenic Risks of Chemicals to Humans, Vol. 65, Printing Processes and Printing Inks, Carbon Black and Some Nitro Compounds, Lyon, pp. 149-261

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

Prepared by

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