

M A T E R I A L S A F E T Y D A T A S H E E T

MS DS
SENT TO
SAFETY OFFICE
DATE 9/24/87

Konica Business Machines U.S.A., Inc. (Importer)
500 Day Hill Rd. Windsor, Ct. 06095
Telephone: (203) 683-2222 (ext. 2093) for
Safety and Environmental Information

Emergency Phone Number:
1-800-424-9300

Developer, Royal 115/122

Revised: June 12, 1987

SECTION 1. PRODUCT IDENTIFICATION

<u>Trade Name/Synonyms</u>	<u>Product Codes</u>	<u>Sizes</u>
ROYAL TONER 115/122	PC/UA 943-645	250g
ROYAL TONER 130/130R	PC/UA 943-937	250g

SECTION 2. MANUFACTURER

Konishiroku Photo Ind. Co., Ltd.
2970 Ishikawa-cho,
Hachioji-shi, Tokyo 192,
Japan

SECTION 3. INGREDIENTS

<u>Name of Predominant Components</u>	<u>CAS No.</u>	<u>Contents (w%)</u>	<u>PEL</u>	<u>TLV</u>
Styrene-acryl resin	-----	-----	-----	-----
Carbon Black	1333-86-4	7 - 12	3.5mg/m ³	3.5mg/m ³
1-Propene, homopolymer	-----	-----	-----	-----
Dye	-----	-----	-----	-----
Silica (Amorphous)	7631-86-9	less than 1	80mg/m ³ % Silica	10mg/m ³

SECTION 4. PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance and Odor: Fine black powder with slight mild odor.
Boiling Point: N.A. Melting Point: N.A.
Softening Range: Around 135°C. Specific Gravity (H₂O=1): 1.1
Vapor Pressure: N.A. Vapor Density (Air=1): N.A.
Evaporation Rate (Butyl acetate=1): N.A.
Solubility in water: Negligible. PH: N.A.

SECTION 5. FIRE AND EXPLOSION DATA

Flash Point (Method used): N.A.
Extinguishing Media: Water, foam, carbon dioxide or dry chemical.
Special Fire Fighting Procedures: When in a machine, treat as electrical fire and do not use water or foam.
Unusual Fire and Explosion Hazard: Toner is a combustible powder. Like many fine powders, toner dust when dispersed into the air at high concentrations can form explosive mixtures. When ignited these mixtures could cause dust explosions.
Flammable Limits: About 20g/m³ in air (Lower Limit).

SECTION 6. REACTIVITY DATA

Stability: Stable (except above 200°C).
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Combustion will produce carbon dioxide and carbon monoxide. Avoid breathing smoke.
Incompatibility (materials to avoid): Strong oxidizers.

SECTION 7. TOXICOLOGY AND HEALTH INFORMATION

The product has been extensively tested and evaluated by Konishiroku Photo Ind. Co., Ltd. When used as intended by the consumer in Konica/Royal copiers it does not represent any known health or safety hazard.

Acute Oral (mouse): LD50 > 5,000mg/kg.

Acute Inhalation (rat): LC50 > 3,029mg/m³ for 4 hrs. (This value is highest attainable with aerosol generation apparatus containing this material).

Eye Irritation (rabbit): Non-irritating.

Skin Irritation (rabbit): Non-irritating.

Carcinogenicity: Not listed by NTP, IARC or OSHA

Mutagenicity (Ames): Non-mutagenic

Primary Route of Entry: Inhalation.

Symptoms of Overexposure: Minimal respiratory tract irritation may occur as with any large amounts of non-toxic dust.

Medical Conditions Generally Aggravated by Exposure: None currently determined.

SECTION 8. EMERGENCY AND FIRST AID

Ingestion: Dilute stomach contents with several glasses of water.

Inhalation: Remove from exposure.

Eye: Flush with water for 15 minutes. Consult a physician.

Skin: Wash with soap and water.

Additional Information: See SECTION 5 and 9.

SECTION 9. SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required when used as intended in KONICA COPIER.

Eye Protection: None required when used as intended in KONICA COPIER.

Protection Gloves: None required by operator when used as intended in KONICA COPIER.

Other Protective Equipment: None required when used as intended in KONICA COPIER.

Other: For use other than in normal operating procedures, goggles, and respirators may be required.

SECTION 10. SPECIAL PRECAUTIONS

Handling and Storage: Keep from contact with oxidizing materials.
Keep out of reach of children.

SECTION 11. SPILL, LEAK, AND DISPOSAL PROCEDURES

For Spills or Leakage: If spilled, minimize dusting situation and sweep up or vacuum.

Waste Disposal Method: No special disposal procedures required.
Insure conformity with federal, state and local regulations.

SECTION 12. TRANSPORTATION INFORMATION

DOT: Proper shipping name: Not regulated.

Hazard Classification: N.A.

ID Number: N.A.

Prepared by the Security and
Safety Department
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