1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: KONICA TONER 4125/4126/4135/4145/2125/2130 PC/UA 947-228 464g
KONICA TONER 4125/4135/2125/2130 PC/UA 947-376 440g
KONICA TONER 4345/4346 PC/UA 947-540 500g

Company Name: Konica Business Machines U.S.A., Inc.
500 Day Hill Road, Windsor Conn. 06095, U.S.A.

Telephone Number:
TEL: 860-663-2402  FAX: 860-285-7696
Emergency Telephone Number:
CHEMTREC: 1-800-424-8800

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>CEC#</th>
<th>wt.%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene-acrylic resin</td>
<td>Trade secret</td>
<td>Trade secret</td>
</tr>
<tr>
<td>Carbon black</td>
<td>1333-86-4</td>
<td>7 - 12</td>
</tr>
<tr>
<td>Wax-1</td>
<td>Trade secret</td>
<td>Trade secret</td>
</tr>
<tr>
<td>Wax-3</td>
<td>Trade secret</td>
<td>Trade secret</td>
</tr>
<tr>
<td>Silica (Amorphous)</td>
<td>7631-86-9</td>
<td>0.5 - 1.5</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Fine black powder (mean dia. is about 5 um by volume). Slight odor.

POTENTIAL HEALTH EFFECTS

Eye Effects: None currently known.
Skin Effects: None currently known.
Ingestion Effects: None currently known. Minimal respiratory tract irritation may occur with moderate to large amount of any non-toxic dust.
Inhalation Effects: None currently known. Prolonged inhalation of excessive dust may cause lung damage. This effect is attributed to "lung overloading", a generic response to excessive absorption of any dust retained in the lungs for a prolonged period. Use of this product, as intended, does not result in inhalation of excessive dust.

Chronic Effects: Carbon black is classified as a group 2B carcinogen (possible human carcinogen) by IARC. However, based on animal testing, it is presumed that there is no association between toner exposure and cancer.

(Continued on page 2)
4. FIRST AID MEASURES

   Eye : Flush eyes with plenty of water. 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.

5. FIRE FIGHTING MEASURES

   Flash Point : Not applicable
   Method Used : Not applicable
   Flammable Limits : LFL 2.5g/m³ in air
   Autoignition Temperature : Not applicable
   Flammability Classification: Not applicable
   Unusual Fire and Explosion Hazard: Combustible powder. Dust at sufficient concentrations can form explosive mixtures with air.

   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. Stop leak if you can do it without risks. 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 disperse static electricity. To avoid dust generation, do not sweep dry.

7. HANDLING AND STORAGE

   Handling:
   Keep out of reach of children. Avoid prolonged inhalation of excessive dust and contact with eyes.

   Prevention of Fire and Explosion:
   This material is capable of creating a dust explosion. Keep away from heat, sparks and flame.

   Storage:
   Keep container tightly closed. Store in a cool and dry place. Keep away from oxidizers.

(Continued on page 3)
8. EXPOSURE CONTROLS/PERSOmal PROTECTION

Exposure Standards: AGGIH TLV (1994-95)

<table>
<thead>
<tr>
<th>INGREDIENTS</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene-acrylic resin</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Carbon black</td>
<td>3.5mg/m³</td>
<td>3.5mg/m³</td>
</tr>
<tr>
<td>Wax-1</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Wax-3</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Silica (Amorphous)</td>
<td>10mg/m³</td>
<td>30mg/m³</td>
</tr>
</tbody>
</table>

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 a large spill), goggles and respirators may be required.
Skin Protection: Not required under normal conditions.
Eye Protection: Not required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fine black powder (mean dia. is about 3um by volume)
Odor: Slight mild odor
pH: Not applicable
Vapor Pressure: Not applicable
Vapor Density: Not applicable
Evaporation Rate: Not applicable
Boiling Point: Not applicable
Melting Point: Around 130C (266F) (Softening point)
Solubility: Insoluble in water
Specific Gravity: 1.1

10. STABILITY AND REACTIVITY
Stability: Stable except above 200C (392F)
Incompatibility: Oxidizers
Hazardous Decomposition Products:
Carbon monoxide, carbon dioxide and smoke
Hazardous Polymerization: Will not occur

(Continued on page 4)
11. TOXICOLOGICAL INFORMATION:

Product

Acute oral toxicity : LD50 > 5000 mg/kg [rat]
Inhalation : LC50 > 56000 mg/m3/4 hrs [rat] (This value is highest-attainable with aerosol generation apparatus)

Eye irritation : Non-irritant [rabbit]
Skin irritation : Non-irritant [rabbit]
Skin sensitization : Non-sensitizing [guinea pig]

Chronic Effects/ Carcinogenicity:
In a two-year inhalation study of chronic toxicity and carcinogenicity using a typical toner in rats, there were no lung changes at all in the lowest exposure level (1 mg/m3), the most relevant level to potential human exposures. A minimal to mild degree of fibrosis was noted in 22% of the animals at the middle exposure level (4 mg/m3), and a mild to moderate degree of fibrosis was observed in 92% of the rats at the highest exposure level (10 mg/m3). The lung changes observed in the higher exposure groups are interpreted in terms of "lung overloading," a series of generic responses to the presence of large quantities of respirable, insoluble and relatively benign dusts retained for extended time periods in the lungs. Lung tumor frequency was unchanged among rats exposed to toner at the three exposure levels, and for air-only control rats.

Mutagenicity : Ames test: Negative

Ingredients

Carbon black

Carcinogenicity:
The IARC reevaluated carbon black as a group 2B carcinogen (possible human carcinogen) in Monograph Volume 55 in 1998. This category has been given to carbon black, based on IARC's evaluations that there is inadequate evidence in humans for the carcinogenicity of carbon black, but there is sufficient evidence in experimental animals. The latter evaluation was made due to the development of lung tumors in rats receiving chronic inhalation exposure to free carbon black at levels that induce "lung overloading." However, studies performed in mice have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats. (See chronic effects in this section.)

Silica (Amorphous)

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

12. ECOLOGICAL INFORMATION:

No data available.

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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 throw away the toner cartridge into the fire.

14. TRANSPORT INFORMATION:

DOT CLASS: Not regulated.
UN CLASS: Not regulated.

15. REGULATORY INFORMATION:

Ingredient carbon black is considered hazardous.

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 orders 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:


Prepared by
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