MATERIAL SAFETY DATA SHEET
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Date of preparation: 11/87
Date of revision: 5/93

SECTION 1 PRODUCT IDENTIFICATION
TRADE NAME: EP-Cartridge Brown
PRODUCT DESCRIPTION: EP cartridge assembly for LBP-CX is composed of photosensitive drum, toner, developer unit, charge-roller and cleaner blade.

ITEM NO: R34-0003, R34-0004
NFPA HMIS RATINGS: Health: 0, Flammability: 1, Reactivity: 1

SECTION 2 INGREDIENTS (TONER)

<table>
<thead>
<tr>
<th>Principal Component(s)</th>
<th>CAS No.</th>
<th>WT. %</th>
<th>OSHA (PEL)</th>
<th>ACGIH (TLV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene Acrylate Copolymer</td>
<td>------</td>
<td>55-65</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>1309-37-1</td>
<td>30-40</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Salicylic Acid Chromium (III) Chelate</td>
<td>72869-85-3</td>
<td>1-3</td>
<td>0.5mg(Cr)/m3</td>
<td>0.5mg(Cr)/m3</td>
</tr>
</tbody>
</table>

Manufacturer contact states all other information is proprietary.

N/A = Not Applicable

Concerning carcinogenicity, the ingredients listed above are not listed on the latest NTP Annual Report, IARC Monographs and OSHA regulations.

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOR: Fine powder, slight plastic odor.
BOILING POINT (C): N/A
MELTING POINT: 100 - 150 C
VAPOR PRESSURE (mmHg.): Negligible.
VAPOR DENSITY (AIR=1): N/A
SOLUBILITY IN WATER: Negligible.
SPECIFIC GRAVITY (WATER=1): 1.4 - 1.6
PERCENT VOLATILE BY VOLUME: Negligible.
EVAPORATION RATE (BUTYL ACETATE=1): Negligible.
PH IN CONCENTRATE: Cannot be determined.
PH IN DILUTION AS USED: Cannot be determined.
SECTION 4 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A--(Some ingredients begin melting at 100 degrees Centigrade or higher.)
EXTINGUISHING MEDIA: Water, Dry Chemical, Carbon Dioxide.
IGNITION TEMPERATURE: N/A
FLAMMABILITY: Non-flammable solid (According to test method 16 CFR 1500.44).
FLAMMABLE LIMITS: N/A
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: This material, like most organic materials in powder form, is capable of creating a dust explosion.

SECTION 5 HEALTH HAZARD DATA

A. EXPOSURE LIMITS: See Section 2.
  Chromium (III) compounds as chromium = 0.5/m3 (OSHA TWA)
  Toner powder is not accessible, unless the cartridge is forced, or broken into.

B. EFFECTS OF OVEREXPOSURE: Minimal respiratory tract irritation may occur with exposure to large amounts of any non-toxic dust. There are no known health hazards, mutagenicity, carcinogenicity or teratogenicity.

C. TOXICITY DATA:

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mutagenicity</td>
<td>S. Typhimurium</td>
<td>Negative</td>
</tr>
</tbody>
</table>

SECTION 6 EMERGENCY FIRST AID PROCEDURES

Inhalation: Remove from exposure to fresh air.
Eye Contact: Open eye and flush with plenty of water. If irritation persists, get medical attention.
Skin: Wash with soap and water.
Ingestion: Drink several glasses of water. Call a physician.

SECTION 7 REACTIVITY DATA

STABILITY: Stable.
INCOMPATIBILITY: Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: As with any other organic material, combustion will produce Carbon Dioxide and Carbon Monoxide.
HAZARDOUS POLYMERIZATION: Will not occur.
SECTION 8 SPILL, LEAK AND DISPOSAL PROCEDURES

**No toner spillage occurs in normal operation, should this occur:**

SPILLS & LEAKS: Sweep material onto paper and place in fibre carton.
DISPOSAL METHOD: No special disposal technique required. Ensure compliance with federal, state and/or local regulations. Cartridge is composed of plastic and metals.

SECTION 9 SPECIAL PROTECTION INFORMATION

VENTILATION: Good general ventilation should be sufficient.
PROTECTIVE GLOVES: None required.
EYE PROTECTION: None required.
OTHER PROTECTIVE EQUIPMENT: None.

SECTION 10 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep Out Of The Reach of Children.
Keep from contact with oxidizing materials.

SECTION 11 REGULATORY INFORMATION

CHEMICALS REQUIRED TO BE REPORTED UNDER SARA TITLE III, CERCLA:
Chromium(III) and compounds: 2.0 Wt% (Maximum)
{As chromium metal: 0.5 Wt% (Maximum)}

DEPARTMENT OF TRANSPORTATION

Proper Shipping Name: Magnetized Material (13 or more Cartridges)
Hazard Class: 9
UN ID No.: UN 2807

ALL COMPONENTS ARE REGISTERED IN ACCORDANCE WITH TSCA.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process.

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