Material Safety Data Sheet

Manufacturer: Xerox Corporation
Rochester, NY 14644

Trade Names/Synonyms: 1025/1038 Blue Developer
Part No.: 5R144

Chemical Name: None

WHMIS Status: This is not a WHMIS controlled product.

Ingredients (% by wt.)

<table>
<thead>
<tr>
<th>Carrier (&gt;90%)</th>
<th>CAS No.</th>
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<tbody>
<tr>
<td>Cu-Zn ferrite powder</td>
<td>66402-68-4</td>
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<table>
<thead>
<tr>
<th>Toner (&lt;5%)</th>
<th>CAS No.</th>
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<tbody>
<tr>
<td>Styrene/acrylate polymer (45-50%)</td>
<td>25213-39-2</td>
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<tr>
<td>Acrylic resin (30-40%)</td>
<td>26299-47-8</td>
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<tr>
<td>Blue pigment; Phthalocyanine derivative (&lt;10%)</td>
<td>39702-40-4</td>
</tr>
<tr>
<td>Polyolefin (&lt;5%)</td>
<td>9003-07-0</td>
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Section II - Emergency and First Aid

Primary Route of Entry:
Inhalation
Eyes: Flush with water.
Skin: Wash with soap and water.

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

Medical Conditions Generally Aggravated by Exposure:
None when used as described by product literature.

Inhalation:
Remove from exposure.

Ingestion:
None.

Additional Information:
None.

Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation. The toxicity data noted below is for toner only.

Oral LD<sub>50</sub>: >5 g/kg (rats) practically non-toxic.
Dermal LD<sub>50</sub>: >5 g/kg (rabbits) practically non-toxic.
Inhalation LC<sub>50</sub>: >20 mg/l (rats, calculated 1 hr exposure) non-poisonous, DOT.

Eye Irritation: Not an irritant.
Skin Sensitization: Not a sensitizer.
Skin Irritation: Not an irritant.
Human Patch: Non-irritating, non-sensitizing
Mutagenicity: No mutagenicity detected in Ames and Micronucleus Assays.
Carcinogens: None present
Aquatic LC<sub>50</sub>: >1000 mg/l (fathead minnows) non-toxic.

TLV: 10 mg/m<sup>3</sup> (total dust)
PEL: 15 mg/m<sup>3</sup> (total dust)
STEL: 5.0 mg/m<sup>3</sup> (respirable dust)
XEL<sup>2</sup>: 2.5 mg/m<sup>3</sup> (total dust)

Additional Information: The results obtained from a Xerox sponsored Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1 mg/m<sup>3</sup>) exposure level (i.e. the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of the animals at the middle (4 mg/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m<sup>3</sup>) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available Xerox toner, and would not be functionally suitable for Xerox equipment.

<sup>1</sup>This product contains a toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372. <sup>2</sup>XEL-Xerox Exposure Limit
Section IV - Physical Data

**Appearance/Odor:** Blue granular / faint odor
**Softening Range:** N.A.
**Boiling Point:** N.A.
**Melting Point:** N.A.
**Solubility in Water:** N.A.
**Specific Gravity (H2O=1):** ~5
**Evaporation Rate:** N.A.
**Vapor Pressure (mm Hg):** N.A.
**Vapor Density (Air=1):** N.A.
**pH:** N.A.
**Volatile:** N.A. % (Wt.) N.A. % (Vol.)

Section V - Fire and Explosion Data

**Flash Point (Method Used):** N.A.
**Flammable Limits:** LEL: N.A., UEL: N.A.
**NFPA 704:** Health - 0, Fire - 1, Reactivity - 0
**Extinguishing Media:** Water, foam, dry chemical.
**Special Fire Fighting Procedures:** Avoid inhalation of smoke. Wear protective clothing and self-contained breathing apparatus.
**Fire and Explosion Hazards:** None

Section VI - Reactivity Data

**Stability:** Stable
**Hazardous Polymerization:** Will Not Occur
**Hazardous Decomposition Products:** Products of combustion may be toxic. Avoid breathing smoke.
**Incompatibility (Materials to Avoid):** None

Section VII - Special Protection Information

**Respiratory Protection:** None required when used as intended.
**Eye Protection:** None required when used as intended.
**Protective Gloves:** None required when used as intended.
**Other:** For use other than normal customer - operating procedures (such as in bulk toner processing facilities), goggles and respirators may be required. For more information, contact Xerox.

Section VIII - Special Precautions

**Handling and Storage:** None
**Conditions to Avoid:** Avoid prolonged inhalation of excessive dust.

Section IX - Spill, Leak, and Disposal Procedures

**For Spills or Leakage:** If spilled, sweep up or vacuum.
**Waste Disposal Method:** This material is not a hazardous waste according to Federal Regulation 40 CFR 261 when disposed. State and Local requirements may however, be more restrictive. Consult with the appropriate State and Local waste disposal authorities for additional information.

Section X - Transportation Information

**DOT Proper Shipping Name:** N.A. (Not Regulated)
**ID Number:** N.A.
**Hazard Classification:** N.A.
**Packing Group:** N.A.