XEROX Material Safety Data Sheet

MSDS No: B-0295
Date: 8/12/93
Revision: 7/23/07

Manufacturer: Xerox Corporation
Rochester, NY 14644

Telephone # (s):
Safety Information: (800) 828-6571
Health Emergency: (585) 422-2177
Transportation Emergency(Chemtrec):(800) 424-9300

Section I - Product Identification

Trade Names/Synonyms: 4010/4011 Developer
Part No.: 101E07610

Chemical Name: None

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No.</th>
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</thead>
<tbody>
<tr>
<td>Carrier (&gt;90%):</td>
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<tr>
<td>Mg-Cu-Zn ferrite ceramic beads</td>
<td>66402-68-4</td>
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<tr>
<td>Styrene/acrylates polymer (&lt;1%)</td>
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<td>Toner (&lt;10%):</td>
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<td>Magnette (55-60%)</td>
<td>1317-61-9</td>
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<tr>
<td>Styrene acrylate copolymer (35-45%)</td>
<td>25767-47-9</td>
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<tr>
<td>Polypropylene (1-5%)</td>
<td>9003-07-0</td>
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<tr>
<td>Silica (&lt;1%)</td>
<td>68611-44-9</td>
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</tbody>
</table>

Section II - Emergency and First Aid

Eyes: Flush with water.
Skin: Wash with soap and water.
Inhalation: Remove from exposure.
Ingestion: Dilute stomach contents with several glasses of water.

Primary Route of Entry: Skin
Symptoms of Overexposure: Indigestion and nausea.
Medical Conditions Generally Aggravated by Exposure: None when used as described by product literature.

Additional Information: See Sections V and VII.

Section III - Toxicology and Health Information

This material has been evaluated by Xerox Corporation.

Oral LD50: >10 g/kg (rats) practically non-toxic. 2
Dermal LD50: >5 g/kg (rabbits) practically non-toxic. 2
Inhalation LC50: >5 mg/l (rats, 4 hr exposure) practically non-toxic. 2
>20 mg/l (calculated 1 hr exposure) non-poisonous, DOT. 2
Eye Irritation: Not an irritant. 2
Skin Sensitization: Not a sensitizer. 2
Skin Irritation: Not an irritant. 2
Patch: Non-irritating, non-sensitizing. 2
Mutagenicity: No mutagenicity detected in Ames Assay.
Carcinogens: None
Aquatic LC50: >500 mg/l (fathead minnows), non-toxic. 2

TLV: 10mg/m3 (total dust)
PEL: 15 mg/m3 (total dust)
STEL: None established
CEILING: None established
XEL: 2.5 mg/m3 (total dust) 0.4 mg/m3 (respirable dust) Human

Additional Information: The information noted above is toxicity data for toner. In a Xerox sponsored chronic inhalation study in rats using a special test toner, there were no lung changes at all in the lowest exposure level (1mg/m3), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4 mg/m3) while a slight degree of fibrosis was observed at the highest exposure level (16 mg/m3) in all animals. These findings are attributed to "lung overloading," a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available Xerox toner to comply with EPA testing protocol and would not function properly in Xerox equipment.

1This ingredient is 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. 2Based on testing of similar xerographic materials. 3XEL-Xerox Exposure Limit

N.A. - Not Applicable  N.E. -None Established  N.D. -Not Determined
Section IV - Physical Data

Appearance/Odor: Black solid/ odorless
Boiling Point: N.A.
Solubility in Water: Negligible.
Evaporation Rate: N.A.
Vapor Density (Air=1): N.A.
Volatile N.A.% (Wgt)  N.A. % (Vol.)

Softening Range: N.D.
Melting Point: N.D.
Specific Gravity (H₂O=1): N.D.
Vapor Pressure (mm Hg): N.A.
\(\text{pH} = \text{N.A.}\)

Section V - Fire and Explosion Data

Flash Point (Method Used): N.A.
Extinguishing Media: Water, foam, dry chemical.

Flammable LEL: N.A.
Flammable Limits UEL: N.A.

Special Fire Fighting Procedures: Avoid inhalation of smoke. Wear protective clothing and self-contained breathing apparatus.
Fire and Explosion Hazards: None known

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 in Xerox equipment.
Eye Protection: None required when used as intended in Xerox equipment.
Protective Gloves: None required when used as intended in Xerox equipment.
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: Store on dry, cool place.
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: When disposed, this material is not a hazardous waste according to Federal Regulation 40 CFR 261. However, State and Local requirements may be more restrictive. Therefore, consultation with the appropriate State and Local waste disposal authorities is advised.

Section X - Transportation Information

DOT Proper Shipping Name: Not Regulated
Hazard Classification: N.A.
ID Number: N.A.

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