Section I - Product Identification

Trade Names/Synonyms: ES 8180, MAX 200 Black Developer
Chemical Name: None

Ingredients (% by wt.)

<table>
<thead>
<tr>
<th>Carrier (&gt;95%):</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cu-Zn ferrite powder (&gt;95%)</td>
<td>66402-68-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toner (&lt;5%):</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene/butylacrylate copolymer (80-90%)</td>
<td>25767-47-9</td>
</tr>
<tr>
<td>Carbon black (5-10%)</td>
<td>1333-86-4</td>
</tr>
<tr>
<td>Polyolefins (5-10%)</td>
<td>9003-07-0/9002-88-4</td>
</tr>
</tbody>
</table>

Section II - Emergency and First Aid

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

Eyes:
Flush with water.

Skin:
Wash with soap and water.

Inhalation:
Remove from exposure.

Ingestion:
Dilute stomach contents with several glasses of water.

Section III - Toxicology and Health Information

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

Oral LD₅₀: >5 g/kg (rats) practically non-toxic.¹
Dermal LD₅₀: >5 g/kg (rabbits) practically non-toxic.¹
Inhalation LC₅₀: >5 mg/l (rats, 4 hr exposure) practically non-toxic.¹
>20 mg/l (rats, calculated 1 hr exposure) non-poisonous, DOT.¹
Eye Irritation: Not an irritant.¹
Skin Sensitization: Not a sensitizer.¹
Skin Irritation: Not an irritant.¹
Human Patch: Non-irritating, non-sensitizing.¹
Mutagenicity: No mutagenicity detected in Ames assay.
Carcinogens: None present
Aquatic LC₅₀: >1000 mg/l (fathead minnows) non-toxic¹

TLV: 10mg/m³ (total dust)
PEL: 15 mg/m³ (total dust)
STEL: 5 mg/m³ (respirable dust)
XEL: 2.5 mg/m³ (total dust)

Additional Information: The results obtained from a Xerox sponsored, Chronic Toner Inhalation Study, demonstrated no lung change in rats for the lowest (1mg/m³) 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 (4mg/m³) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m³) 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.

¹Based on testing similar xerographic toner materials. ²XEL-Xerox Exposure Limit

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

Appearance/Odor: Black powder / faint odor
Softening Range: 85°C to 100°C
Boiling Point: N.A.
Melting Point: N.A.
Solubility in Water: Negligible
Specific Gravity (H₂O=1): ~1
Evaporation Rate: N.A.
Vapor Density (Air=1): N.A.
Volatile: N.A.% (Wgt)  N.A. % (Vol.)

Section V - Fire and Explosion Data

Flash Point (Method Used): N.A. • C  N.A. • F
Flammable Limits: LEL: N.A  UEL: N.A.
NFPA 704: Health-0, Fire-1, Reactivity-0
Extinguishing Media: Dry chemicals, CO₂, foam, water
Special Fire Fighting Procedures: Avoid inhalation of smoke. Wear protective clothing and self-contained breathing apparatus.
Fire and Explosion Hazards: Toner is a combustible powder. Like most organic materials in powder form, when dispersed in air, it can form explosive mixtures.

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 known

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: Use with adequate ventilation
Conditions to Avoid: Avoid prolonged inhalation of excessive dust.

Section IX - Spill, Leak, and Disposal Procedures

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

Section X - Transportation Information

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

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