# Material Safety Data Sheet

## Section I. General Information

**MSDS Identifier Code**
- **Supplier ID:** Ricoh
- **Product Code:** 7100-36

**Identity:** 7055 Toner - Savin

**Manufacturer's Name and Address:**
- Ricoh Corporation
- 5 Dedrick Place
- West Caldwell, NJ 07006

**Emergency Telephone Number:** (800) 336-6737

**Telephone Number for Information:** (201) 882-2000, (800) 336-6737

**Synonyms & Common Names:** 7055 Toner - Savin, Savin Product Code - 7365

**Uses:** Savin 7045, Savin 7055

**Chemical Formula:** Mixture - Carbon black, Styrene Acrylic Resin, Dye

**Registry numbers**
- **CAS Number:** 0-00-0
- **RTECS Number:** N/App

**Date Prepared:** 04/09/92 **Filed/Prepared By:** Ricoh CQA/EA Division

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## Section II. Hazardous Ingredients/Identity Information

### Composition

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>CAS #</th>
<th>OSHA Pel</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene Acrylic Polymer</td>
<td>74.00</td>
<td>26655-10-7</td>
<td>N/App</td>
<td>N/App</td>
</tr>
<tr>
<td>Styrene Acrylic Polymer</td>
<td>13.00</td>
<td>25213-39-2</td>
<td>N/App</td>
<td>N/App</td>
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<tr>
<td>*Carbon Black</td>
<td>11.00</td>
<td>1333-86-4</td>
<td>3.5mg/m3</td>
<td>3.5mg/m</td>
</tr>
<tr>
<td>Dye</td>
<td>&lt;2.00</td>
<td>84179-66-8</td>
<td>N/App</td>
<td>N/App</td>
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<tr>
<td>Dye</td>
<td>&lt;2.00</td>
<td>109125-50-0</td>
<td>N/App</td>
<td>N/App</td>
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<tr>
<td>Dye</td>
<td>&lt;2.00</td>
<td>109125-51-1</td>
<td>N/App</td>
<td>N/App</td>
</tr>
</tbody>
</table>

*Carbon black is listed on the IARC Mono-
and the Massachusetts Substance List.
The IARC has evaluated the evidence for the
carcinogenicity of Carbon Black as inade-
quate to determine a carcinogenic risk for
humans.

**THIS PRODUCT IS NON-HAZARDOUS**
All components of this mixture comply with the United States TSCA.

Exposure Limits (TLV/PEL)
- OSHA: See data above
- NIOSH: Not applicable
- ACGIH: See data above
- State: Not applicable
- Other: Not applicable

Section III. Physical/Chemical Characteristics

- Boiling Point: Not applicable
- Specific Gravity: 0.34
- Vapor Pressure: Not applicable
- % Volatile by Volume: Not applicable
- Melting Point: 80°C or higher
- Vapor Density (Air=1): Not applicable
- Evaporation Rate (n-BuAc=1): Not applicable
- Solubility in Water: Negligible: Less than 0.1%
- Appearance and Odor: Black powder with slight plastic odor

Section IV. Fire and Explosion Hazard Data

- Flash Point and Method: Not applicable
- Explosive Limits: LEL N/App UEL N/App
- Comments: Not applicable
- Extinguishing Media: CO2, dry chemicals, foam or water
- Special Fire-Fighting Procedures: No special fire-fighting procedure is necessary.
- Unusual Fire and Explosion Hazards: Airborne dispersal of most finely divided organic powders such as toner may form an explosive mixture. Do not incinerate loose or spilled toner.

Section V. Reactivity Data

- Stability: Stable
  - Conditions to Avoid: Not applicable
- Incompatibility (Materials to Avoid): Not applicable
- Hazardous Decomposition or Byproducts: Carbon monoxide and other decomposition products in the case of combustion.
- Hazardous Polymerization: Will not Occur
Conditions to Avoid: Not applicable

Section VI. Health and Hazard Data

Routes of Entry: Eyes, ingestion, inhalation

Health Hazards of Short-Term exposure (Acute)

Eyes: May cause temporary eye discomfort

Skin: May cause slight irritation on prolonged and repeated contact with the skin. Mildly irritating (primary irritation index 0.1).

Inhalation: Gasping

Ingestion: Greater than 5g/kg bodyweight, practically non-toxic

Health Hazards of Long-Term exposure (Chronic): A Xerox sponsored chronic inhalation study in rats using a special test toner revealed 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 (4mg/m3) while a slight degree of fibrosis was observed at the highest exposure level (16mg/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 toner to comply with EPA testing protocol and would not function properly in xerographic equipment.

Carcinogenicity: This product contains carbon black. The IARC has evaluated the evidence for the carcinogenicity of carbon black as inadequate to determine a carcinogenic risk for humans. Carbon black is not listed on the latest NTP Annual Report or OSHA Listing as a carcinogen.

NTP? No  IARC Monographs? Yes  OSHA Regulated? No

Signs and Symptoms of Exposure: Not applicable

Medical Conditions Generally Aggravated by Exposure: Not applicable

Emergency and First Aid Procedures

First Aid

Eyes: Try to remove with eye drops or flush with water. If unsuccessful, get medical attention.

Skin: Wash thoroughly with soap and water.

Inhalation: Remove from exposure.

Ingestion: Dilute stomach contents with several glasses of water.
Additional Information: Ames test result: Negative

Section VII. Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled: If spilled, sweep up using an approved toner vacuum cleaner with a .5 micron filter or smaller such as the Attrix AAA Toner Vacuum (Ricoh EDP Code 342MIU). Use of a vacuum cleaner not rated for toner particulate could be a potential fire hazard and/or result in personal injury. Remove residue with soap and water.

Waste Disposal Method: Used toner should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Do not incinerate loose or spilled toner. (See section IV). Disposal regulations vary from locality to locality, therefore, consult your local office of the EPA to determine proper method of disposal.

Precautions to Be Taken in Handling and Storing: Cleanse skin thoroughly after contact, before breaks and meals, and at the end of work periods. Keep out of reach of children.

Other Precautions: None

Section VIII. Control Measures

Respiratory Protection: None required under normal conditions of use.

Ventilation
- Local Exhaust: None required under normal conditions of use.
- Special: None
- Mechanical (general): Adequate ventilation
- Other: None

Protective Gloves: None required under normal conditions of use.

Eye Protection: None required under normal conditions of use.

Other Protective Clothing or Equipment: None required under normal conditions of use.

Work and Hygenic Practices: Cleanse skin thoroughly after contact, before breaks and meals and at the end of work periods.