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RICOH CORPORATION  
MATERIAL SAFETY DATA SHEET

11/04/91

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Section I. General Information

MSDS Identifier Code

Supplier ID: Ricoh Product Code: 4120-03

Identity: R-50 Toner - Savin

Manufacturer's Name and Address:

Ricoh Corporation  
5 Dedrick Place  
West Caldwell, NJ 07006

Distributor's Name and Address:

Savin Corporation  
P.O. Box 10270  
Stamford, CT 06904

Emergency Telephone Number: (800) 336-6737

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

Synonyms & Common Names: 5030/40/50 Toner, Savin Product Code - 4216, Savin  
D Pak 4215

Uses: Savin 5030/5040

Hazard Classes: Combustible Liquid N.O.S.

Chemical Formula: Mixture

Registry numbers

CAS Number: 0-00-0  
RTECS Number: N/App  
UN Number: 1993

Date Prepared: 10/29/90 Filed/Prepared By: Kristina Sage

Section II. Hazardous Ingredients/Identity Information

Composition

Component	%	CAS #	OSHA Pel	ACGIH TLV
Hydrotreated Heavy Naphtha (ISOPAR)	89.00	64742-48-9	N/App	300ppm
*Carbon Black	02.00	1333-86-4	3.5mg/m3	3.5mg/m3
Acrylic Polymer	03.00	25068-63-7	N/App	N/App
*Wax	06.00	9002-88-4	N/App	N/App

\*Carbon Black is listed on the Massachusetts Substance List and the IARC Monograph.  
\*Wax is listed on the IARC Monograph.  
The IARC has evaluated the evidence for the carcinogenicity of Carbon Black and Wax as inadequate to determine a carcinogenic risk for humans.

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## Exposure Limits (TLV/PEL)

OSHA: See data above  
NIOSH: Not applicable  
ACGIH: See data above  
State: Not applicable  
Other: None

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Section III. Physical/Chemical Characteristics  
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Boiling Point: 161-199C                      Specific Gravity: 0.78@15.6C  
Vapor Pressure: <10mmHg @ 25C            % Volatile by Volume: Not applicable  
Melting Point: No data                      Vapor Density (Air=1): Greater than 5  
Evaporation Rate (n-BuAc=1): Approx. 0.3

Solubility in Water: Negligible: Less than 0.1%

Appearance and Odor: Black liquid, faint petroleum hydrocarbon odor

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Section IV. Fire and Explosion Hazard Data  
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Flash Point and Method: 41C (105.8F) T.C.C.

Explosive Limits: LEL 0.7 UEL 6.5  
Comments: Not applicable

Extinguishing Media: Foam, water spray (mist), dry chemical, or carbon dioxide.

Special Fire-Fighting Procedures: If a leak or spill has ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

Unusual Fire and Explosion Hazards: Will not occur during normal use.

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Section V. Reactivity Data  
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Stability: Stable  
Conditions to Avoid: Not applicable

Incompatibility (Materials to Avoid): Avoid contact with strong oxidizers such as liquid Cl<sub>2</sub> or conc. O<sub>2</sub>.

Hazardous Decomposition or Byproducts: Carbon monoxide and other decomposition products in the case of incomplete combustion.

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Hazardous Polymerization: Will not Occur  
Conditions to Avoid: Not applicable

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Section VI. Health and Hazard Data  
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Routes of Entry: Skin, inhalation, ingestion

Health Hazards of Short-Term exposure (Acute)

Eyes: Slight conjunctival irritation

Skin: Mild irritation under conditions of excessive exposure.  
Skin irritation (rabbit): Non-irritant

Inhalation: No untoward effects.  
LD50 (rat): Greater than 12,400 mg/m3 (approximately 2000ppm)

Ingestion: Greater than 5g/kg bodyweight

Health Hazards of Long-Term exposure (Chronic): Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquid, vapor, mist or fumes should be minimized.

Carcinogenicity: See Section II

NTP? No IARC Monographs? Yes OSHA Regulated? No

Signs and Symptoms of Exposure: High vapor concentrations (greater than approximately 1000 ppm) are irritative to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic, and may have other central nervous system effects.

Medical Conditions Generally Aggravated by Exposure: Not applicable

Emergency and First Aid Procedures

First Aid

Eyes: If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides.

Skin: In the case of skin contact, remove any contaminated clothing and wash skin thoroughly with waterless hand cleaner followed by soap and water.

Inhalation: If overcome by vapor, remove from exposure and call a physician immediately.

Ingestion: If ingested, do not induce vomiting; call a physician immediately.

Additional Information: Ames test result: Negative

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Section VII. Precautions for Safe Handling and Use  
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Steps to be Taken in Case Material is Released or Spilled: Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authority if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

Waste Disposal Method: Waste liquid should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Do not incinerate. 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:

CAUTION - COMBUSTIBLE LIQUID

Keep away from heat, open flame and sparks. Keep out of reach of children.

Other Precautions: Empty containers retain residue (liquid and/or vapor) and can be dangerous. In order to avoid the risk of explosion, do not pressure, cut or expose such containers to heat, sparks or other sources of ignition.

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Section VIII. Control Measures  
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Respiratory Protection: None needed under normal conditions of use.

Ventilation:

Local Exhaust: None needed under normal conditions of use.

Special: None

Mechanical (general): Adequate ventilation

Other: None

Protective Gloves: None needed under normal conditions of use.

Eye Protection: None needed under normal conditions of use.

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

Work and Hygenic Practices: Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or

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Wash hands thoroughly before reuse. Remove contaminated shoes and thoroughly clean and dry shoes before reuse. Cleanse skin thoroughly after contact, before breaks and meals and at the end of work periods. Product is readily removed from skin by waterless hand cleaners followed by washing with soap and water.