

# Material Safety Data Sheet

May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910,1200. Standard must be  
 consulted for specific requirements.

U.S. Department of Labor  
 Occupational Safety and Health  
 Administration(Non-Mandatory Form)

<b>IDENTITY (As Used on Label and List)</b>  V-35 Dispersant for black toner  <u>7350, 7450, 7230</u>	<b>Note:</b> Blank spaces are not permitted.  If any item is not applicable, or no information is available, the space must be marked to indicate that.
---	---

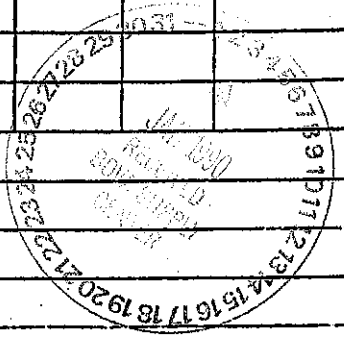
## Section I

<b>Manufacturer's Name</b>  Ricoh Company, LTD.  <b>Address</b> 1-3-6, Nakamagome, Ota-ku, Tokyo, Japan	<b>Emergency Tel.</b> Michael W. Sarasin (201) 882-5231
	<b>Tel.No. for information</b> Ditto
	<b>Date Prepared</b> Jan. 27, 1986

## Section II-Hazardous ingredients/Identify Information

Hazardous Components(Specific Chemical Identity; Common Name(s))							
Ingredients	Contents(%)	ACGIH		Hazardous chemical		Carcinogens	
		TLV	ACGIH	OSHA	OSHA	NTP	IARC
Naphtha(Petroleum) heavy alkylated (ISOPAR) (CAS# 64741-65-7)	100	300 ppm ☆	X	X	X	X	X

Note: ☆ .....Recommended by EXXON. X.....Not listed



#### 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.

#### Emergency and First Aid Procedures

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

**Skin contact:** In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water.

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

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

#### Section VII-Precautions for Safe Handling and Use

##### 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 environmentally safe manner and in accordance with governmental regulations.

##### Precautions to Be Taken in Handling and Storing

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. Do not pressure or expose such container to heat, flame, sparkes, or other source of ignition. They may explode.

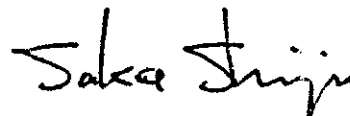
Section VIII-Control Measures

Respiratory Protection(Specify Type)		
None needed under normal use condition		
Ventillation	Local Exhaust	Special
	None needed under normal use condition	None needed
	Mechanical(General)	Other
	Adequate ventilation	None needed
Protective Gloves		Eye Protection
None needed under normal use condition		None needed
Other Protective Clothing or Equipment		
None needed		
Work/Hygiene Practices		
<p>Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before reuse. Remove contaminated shoes and thoroughly clean and dry before reuse. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of works.</p> <p>Product is readily removed from skin by waterless hand cleaners followed by washing with soap and water.</p>		

Page(4) V-35 Dispersant for black toner

The information and recommendations contained herein, to the best of Ricoh's knowledge and belief, accurate and reliable as of the date issued. Ricoh does not warrant or guarantee their accuracy or reliability, and Ricoh shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's responsibility to satisfy itself that they are suitable and complete for its particular use.



S. Shimizu

General Manager

P.L.P. Office, QC Division

**Section III-Physical/Chemical Characteristics**

Boiling Point	Approx. 161-200°C	Specific Gravity(H <sub>2</sub> O=1)	0.75 at 15°C
Vapor Pressure(mmHg.)	Less than 10mmHg At 25°C	Melting Point	Less than -18°C
Vapor Density(AIR=1)	Greater than 5	Evaporation Rate (Butyl Acetate=1)	Approx. 0.3
Solubility in water  Negligible: Less than 0.1%			
Appearance and Odor  Clear water-white liquid, faint petroleum hydrocarbon odor			

**Section IV-Fire and Explosion Hazard Data**

Flash Point(Method used)	Flammable limits(%)	LEL	UEL
43 °C(T.C.C)		0.7	6.5

**Extinguishing Media**

Foam, water spray(fog), dry chemical, or carbon dioxide may be suitable.

**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.

**Section V-Reactivity Data**

Stability	Unstable		Condition to avoid
	Stable	X	

**Incompatibility(Materials to avoid)**

Avoid contact with strong oxidizer such as Liquid Cl<sub>2</sub> or conc. O<sub>2</sub>.

**Hazardous Decomposition or Byproduct**

Carbon monoxide and other decomposition product in case of incomplete combustion.

**Section VI-Health Hazard Data**

Route(s) of Entry:	Inhalation ?	Skin ?	Ingestion ?
	X		

**Health Hazards(Acute and Chronic)**

Health studies have been 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 fume should be minimized.

Carcinogenicity:( NTP ?, IARC Monograph ?, OSHA Regulated ?) See Section II