CHEM039

65°

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)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Gestetner E.S. Toner Set for PM-10	

Section I

Manufacturer's Name: Iwatsu Electric Company, Ltd.	Emergency Telephone Number: Tokyo 271-5131
Address (Number, Street, City, State, and ZIP Code): Yanagiya Building, 1-10 Nihonbaski 2-Chome	Telephone Number for Information: Tokyo 271-5131
Chuo-Ku Tokyo 103 Japan	Date Prepared: September 1986
	Signature of Preparer (optional):

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	* Other Limits Recommended	% (optional)
Petroleum Hydrocarbons		-	300 ppm	99.5%

*Recommended by manufacturer, 8 hours, 5 days

Section III — Physical/Chemical Characteristics

Boiling Point	326-327°F	Specific Gravity (H_2O = 1)	0.75
Vapor Pressure (mm Hg) at 24°C	5	Melting Point	N/A
Vapor Density (AIR = 1)	5	Evaporation Rate (Butyl Acetate = 1)	0.16

Solubility in Water: negligible

Appearance and Odor: black liquid, little odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
41°C closed cap		0.8%	7%

Extinguishing Media: Dry chemical powder, foam fog, nozzle applied water spray.

Special Fire Fighting Procedures: e water spray to cool fire exposed surfaces and to protect personnel. Boil-over may occur. Use air-supplied rescue equipment in enclosed areas. Shut off "Fuel" to fire.

Unusual Fire and Explosion Hazards: Carbon monoxide evolved if combustion incomplete. Liquid can release vapors that can form flammable mixtures upon moderate heating to temperatures at 2 above flash point.

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		Don't store or mix with strong oxidants like
	Stable	X	chlorine and concentrated oxygen.

Incompatibility (*Materials to Avoid*): chlorine and concentrated oxygen

Hazardous Decomposition or Byproducts: carbon monoxide if combustion incomplete

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	X	

Section VI — Health Hazard Data

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

Health Hazards (*Acute and Chronic*)
Signs and Symptoms of Exposure: Inhalation of high concentrations can produce central nervous system depression which can in turn lead to a loss of coordination, impaired judgment and if exposure is prolonged result in stupor or unconsciousness. Prolonged or repeated contact with skin will dry and defat it eventually causing irritation and dermatitis.

Carcinogenicity: NTP? NK IARC Monographs? NK OSHA Regulated? NK

Emergency and First Aid Procedures: If overcome by vapors remove to fresh air and if breathing stopped give artificial respiration. Keep individual calm and call physician. If accidental skin or eye contact occurs, remove any contaminated clothing and flush area with water until irritation subsides. In case of accidental ingestion, vomiting should NOT be induced due to the hazard of solvent aspiration and subsequent chemical pneumonitis. Call a physician

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Remove all ignition sources. Keep people away. Recover free liquid, add absorbent to spill area. Avoid breathing vapors, ventilate enclosed spaces - open all windows and doors.

Waste Disposal Method: Ensure conformity to local disposal regulations - consult an expert on removal of material.

Precautions to Be Taken in Handling and Storing: Don't store or mix with strong oxidants.

Other Precautions: Keep container closed when not in use. Don't handle or store near open flame, heat, sparks or strong oxidants. Adequate ventilation required.

Section VIII — Control Measures

Respiratory Protection (*Specify Type*): Organic vapor canisters or cartridges. In emergencies in high concentrations use self-contain breathing apparatus.

Ventilation		
	Local Exhaust: Use natural or mechanical (general)	Special
	Mechanical (*General*): ventilation to keep concentration below TLV	Other

Protective Gloves: Chemically resistant if prolonged skin contact

Eye Protection: Chemical splash goggles or face shield if nee

Other Protective Clothing or Equipment: none

Work/Hygienic Practices: none