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U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-10387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I	
MANUFACTURER'S NAME Ricoh company, Ltd.	EMERGENCY TELEPHONE NO. 03-777-8111
ADDRESS (Number, Street, City, State, and ZIP Code) 1-3-6, Nakemagome, Ota-ku, Tokyo, Japan	
CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS Ricoby PPC toner (type R-50)
CHEMICAL FAMILY Mixture mainly composed of isoparaffinic hydrocarbon solvent.	FORMULA -

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS Carbon Black	5	N.A	BASE METAL		N.A
CATALYST		N.A	ALLOYS		N.A
VEHICLE Acrylic Resin	5	N.A	METALLIC COATINGS		N.A
SOLVENTS Naphtha (Petroleum)	90	N.A	FILLER METAL PLUS COATING OR CORE FLUX		N.A
ADDITIVES heavy-Alkylated		N.A	OTHERS		N.A
OTHERS		N.A			
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
The results of the Ames/Salmonella assay were NEGATIVE.					

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	180-190°C	SPECIFIC GRAVITY (H ₂ O=1)	0.77
VAPOR PRESSURE (mm Hg.)	0.9mmHg	PERCENT, VOLATILE BY VOLUME (%)	00%
VAPOR DENSITY (AIR=1)	5.3	EVAPORATION RATE (_____ -1)	
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR	Black liquid, kerosene like odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method used)	50.5 °c	FLAMMABLE LIMITS	LeL 0.7 UeL 2.7
EXTINGUISHING MEDIA	CO, foam, water, dry chemical.		
SPECIAL FIRE FIGHTING PROCEDURES	Same as for kerosene.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Do not store or mix with strong oxidizing agents.		

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	NO TLV has been determined by ACGIH. We recommend a maximum of 300 ppm for an 8 hour working day, 5 days a week.
EFFECTS OF OVEREXPOSURE	Inhalation of high vapor concentrations may result in fatigue and respiratory or eye irritation.
EMERGENCY AND FIRST AID PROCEDURES	If swallowed, do not induce vomiting. Call a physician. Flush eyes until irritation subsides. Wash with water after contact with skin.

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	○	
INCOMPATIBILITY (Materials to avoid) Do not store or mix with strong oxidizing agents.			
HAZARDOUS DECOMPOSITION PRODUCTS Carbon mono-oxide in case of incomplete combustion.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	○	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	
Remove all ignition sources. Recover free liquid. Add absorbent to spill area. Ventilate.	
WASTE DISPOSAL METHOD	
Remove all ignition sources. Consult an expert in disposal of this material, which should conform to local disposal regulations.	

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) Not normally needed.			
VENTILATION	LOCAL EXHAUST	Not normally needed.	SPECIAL -
	MECHANICAL (General)	Adequate ventilation.	OTHER -
PROTECTIVE GLOVES	Not normally needed.	EYE PROTECTION	Not normally needed.
OTHER PROTECTIVE EQUIPMENT -			

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
Keep containers closed. Keep away from heat and open flame.	
OTHER PRECAUTIONS	
Avoid prolonged or repeated contact with skin. Remove contaminated clothing. Wash skin with soap and water.	