

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier RICOH THERMAL PAPER (FILM) TYPE 140LES			
Product Use Pressure Sensitive Direct Thermal Labels			
Manufacturer's Name Ricoh Electronics, Inc.			
Street Address 1125 Hurricane Shoals Rd.			
City Lawrenceville	State / Providence GA	Zip 30043	Country USA
Telephone 1-800-843-7058 / 1-949-263-2000	Fax 1-888-843-7059 / 1-949-263-2152		
Publisher's Name: Ricoh Company, Ltd.			
Street Address 146-1 Nishisawada			
City Numazu-shi	State / Providence Shizuoka-ken	Zip 410-0007	Country Japan
Telephone +81-55-920-1471	Fax +81-55-920-1479		
Emergency Telephone Number +81-55-920-1471			

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Contents (%)
Poly Propylene Film(Base Film)	Confidential	91.0~94.0
Inorganic Pigment	Confidential	1.0~2.0
Poly(vinyl alcohol)	Confidential	1.0~2.0
Phenol Derivative	Confidential	1.0~2.5
Leuco Dye	Confidential	0.5~1.5

SECTION 3 — HAZARDS IDENTIFICATION

HAZARD	ACTION
Adverse Human Health Effects	Not applicable in normal use.
Carcinogenicity	This product does not contain the carcinogenic substances, which are listed in NTP, IARC and are regulated by OSHA.
Environmental Effects	Not applicable in normal use.
Physical and Chemical Hazards	Not applicable in normal use.
The Classification of The Chemical Product	Not Applicable

SECTION 4 — FIRST AID MEASURES

CONTACT	ACTION
Inhalation	Not applicable.
Skin Contact	Wash with water.
Eye Contact	Not applicable.
Ingestion	Induce vomiting.

SECTION 5 — FIRE FIGHTING MEASURES

METHOD	ACTION
Extinguishing Media	CO2, dry chemicals, foam or water.
Specific Method	No special fire protecting method is required.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

PROCEDURE TYPE	ACTION
Personal Precautions	Not applicable.
Environment Precautions	Not applicable.
Methods for Cleaning Up	Not applicable.

SECTION 7 — HANDLING AND STORAGE

Handling Avoid water, oil and chemicals (for quality).
Storage: Store in cool and dry place avoiding sunshine (for quality).

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits Not applicable.	
Engineering controls None needed.	
Personal protection	
Respiratory	None needed
Hand	None needed
Eye	None needed
Skin and Body	None needed

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Form : Plastic
 Color : White
 Odor : None

Information

pH : Not available Measuring Temp (°C) : -
 Boiling Point (°C) : Not applicable
 Flash Point (°C) : Not applicable
 Explosion Properties (°C) : This product is considered a non-explosive material under normal use condition.
 Vapor Pressure (Pa) : Not applicable Measuring Temp (°C) : -
 Vapor Density (AIR=1) : Not applicable
 Density (g/cm3) : Not available Measuring Temp (°C) : -

Solubility

Water Solubility (g/L) : Insoluble
 Water Solubility Measuring Temp (°C) : -
 Other Solvent name : -
 Other Solvent Solubility (g/L) : -
 Other Solvent Solubility Measuring Temp (°C) : -

Octanol /Water Partition Coefficient

Not known

SECTION 10 — STABILITY AND REACTIVITY

Conditions to Avoid	Not applicable in normal use.
Materials to Avoid	Not applicable in normal use.
Hazardous Decomposition Products	Will not occur.

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure	
Acute Oral Toxicity Rat : ≥ 2000 mg/kg	
Irritancy of Product Acute Skin Irritation (PII) : Non-irritant (Mildly irritating) Acute Eye Irritation : Not applied Acute Allergenic Effects : Non-skin sensitive	
Skin sensitization Acute Skin Irritation (PII) : Non-irritant (Mildly irritating)	Respiratory sensitization Acute Inhalation Toxicity : Not applicable
Carcinogenicity-IARC No data is available on this product.	
Reproductive toxicity No data is available on this product.	Teratogenicity Not available
Mutagenicity Negative	

SECTION 12 — ECOLOGICAL INFORMATION

Persistence/Degradability	Not known.
Bioaccumulation	Not available.
Ecotoxicity	
Acute Toxicity for Fish	Not available (mg/kg/96hr)
Acute Toxicity for Daphnia	Not available (mg/kg/48hr)
Algae Inhibition Test	Not available (mg/kg/72hr)

SECTION 13 — DISPOSAL CONSIDERATIONS

Recommended Methods for Safe Environmentally Preferred Disposal Used paper should be disposed in environmental safe manner and in accordance with governmental regulations.
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SECTION 14 — TRANSPORT INFORMATION

RID/ADR	Not applicable
DOT 49 CFR	Not applicable
ADNR	Not applicable
IMDG Code	Not applicable
ICAO-TI/IATA-DGR	Not applicable
The UN Classification Number	Not applicable
Specific Precautionary Transport Measures	Store in cool and dry place avoiding sunshine.
Specific Materials to Avoid	None in normal use condition.

SECTION 15 — REGULATORY INFORMATION

Not applicable.

SECTION 16 — OTHER INFORMATION

None.