

ITW Specialty Films

# SAFETY DATA SHEET

1. **PRODUCT NAME :** P110
2. **COMPOSITION / INFORMATION ON INGREDIENTS :**

**GENERAL DESCRIPTION OF CHEMICAL CHARACTER:**

Thermal Transfer Ribbon with heat transferable coatings .

Chemical characteristics	PET Carrier	
	Carbon Black	10 ~ 20 %
	Carnauba wax	10 ~ 30 %
	Candelilla wax	20 ~ 40 %
	Resin & etc	5 ~ 15 %

HAZARDOUS INGREDIENTS	CAS NO.	RISK PHRASES
None	Not Applicable	Not Applicable

3. **HAZARDS IDENTIFICATION.**

**RISKS FOR HUMAN HEALTH** This product is relatively innocuous substance and is not expected to cause harm. Mechanical irritation of the eyes, nose and throat may occur if slitting. Suggest 10mg/Cu.M for inert or nuisance particulate if debris is generated during slitting, etc.

**ENVIRONMENTAL RISKS** No data available

4. **FIRST AID MEASURES.**

**SKIN** If irritations are felt after contact with skin, wash with plenty of mild soap and water.

**EYES** In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes and seek medical advice.

**INGESTION** If swallowed, get medical attention

**PRODUCT NAME : «P110»**

---

**5. FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA:**

Foam, Dry Powder, CO2, Water

**UNUSUAL FIRE AND EXPLOSION HAZARD**

In case of fire do not breath fumes. Particular risk arising from the products/products of combustion /generated gases : carbon mono-oxide, carbon dioxide.

**PROTECTIVE EQUIPMENT**

Breathing apparatus should be worn.

---

**6. ACCIDENTAL RELEASE MEASURES**

Not Applicable

---

**7. HANDLING & STORAGE****HANDLING**

Wash thoroughly after handling and before eating or smoking. Eye protection is recommended if ribbon is being slit or cut. Use adequate ventilation - nuisance particles are being generated.

**STORAGE**

Store in air atmosphere, sheltered from light and at temperature below 40 degrees C. Avoid proximity of flame and heat sources. Store 24 hours in room temperature before slitting.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****TECHNICAL PROTECTION MEASURES**

This product will slowly photo degrade with UV light exposure, shelter from light.

**PERSONAL PROTECTIVE EQUIPMENT**

Goggle for eye protection and particle mask for nose and throat protection during slitting process.

**PRODUCT NAME : «P110»****9. PHYSICAL & CHEMICAL PROPERTIES**

<b>FORM</b>	Ink coated film.
<b>COLOR</b>	Black
<b>ODOR</b>	Little or no odor
<b>CHANGE IN PHYSICAL MELTING POINT/MELTING RANGE</b>	Not Applicable Ink : 70 +,-5 degrees C Film : 256~265 degrees C
<b>BOLING POINT/RANGE</b>	Not Applicable
<b>FLASH POINTS</b>	> 150 degrees C
<b>IGNITION TEMPERATURE</b>	Not Applicable
<b>DANGER OF EXPLOSION</b>	Not Applicable
<b>EXPLOSION LIMIT</b>	Not Applicable
<b>VAPOR PRESSURE</b>	Not Applicable
<b>SOLUBILITY</b>	Not Applicable
<b>PH-VALUE</b>	Not Applicable
<b>VISCOSITY</b>	Not Applicable

**10. STABILITY AND REACTIVITY**

<b>STABILITY</b>	Stable
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Terephthalic acid, CO and aldehyde above 300 degrees C

**11. TOXICOLOGICAL INFORMATION**

<b>HEALTH EFFECTS</b>	None known
<b>ACUTE TOXICITY</b>	Not tested

## Other Information:

This product has been formulated to ensure that it complies with the RoHS Directive as per the European Union's RoHS Legislation( Directive2002/95/EC ): that is that the TTR will contain levels below those listed below. The purpose of this Directive is to approximate the laws of the Member States on the restrictions of the use of hazardous substances in electrical and electronic equipment and to contribute to the protection of human health and the environmentally sound recovery and disposal of waste electrical and electronic equipment.

The limits for which are listed here:

Lead	Pb	1,000 ppm
Cadmium	Cd	100 ppm
Chromium	Cr <sup>+6</sup>	1,000 ppm
Mercury	Hg	1,000 ppm
PBB	Polybrominated biphenyl	1,000 ppm
PBDE	Polybrominated biphenyl ethers	1,000 ppm

**PRODUCT NAME : «P110»**

---

**12. ECOLOGICAL INFORMATION**

<b>AQUATIC TOXICITY</b>	Not Available
<b>BIODEGRADABILITY</b>	Not Available
<b>EFFECT ON EFFLUENT TREATMENT</b>	Not Available

---

**13. DISPOSAL CONSIDERATION**

<b>DISPOSAL DEFINITION</b>	Scrap film from slitting, ribbon after printing barcode.
<b>WASTE DISPOSAL</b>	Disposal in accordance with local state and federal regulations.

---

**14. TRANSPORT INFORMATION**

No special

---

**15. REGULATORY INFORMATION**

No special.

---

**16. OTHER INFORMATION**

No liability is accepted for any injury, loss damage or cost arising directly or indirectly from the use of any information contained within this MSDS since the customer's treatment of the product is necessarily out of our control.

---

The data compiled above is based on current knowledge and experience. The purpose of this Safety Data Information is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products workability