

# **ITW THERMAL FILMS**

An ITW Company

## **Material Safety Data Sheet**

Date of Printing: 11/10/03

### **1. Product and Company Information**

Details on the product:	Thermal Transfer Ribbon
Commercial product name:	B324
Manufacturer/Supplier:	ITW Thermal Films
Responsible Office:	14981 32 Mile Road Romeo, MI 48065
Telephone number:	586-752-5553

### **2. Composition/Information on Ingredients**

Chemical Characteristics:	PET Carrier Wax Carbon Black Resin & etc.
---------------------------	--

### **3. Hazards Identification**

Risks for human health:	This product is a relatively innocuous substance and is not expected to cause harm. Mechanical irritation of the eyes, nose, and throat may occur in slitting.
Environmental Risk:	No data available.

### **4. First-Aid Measures**

Skin:	If irritation is felt after contact with skin, wash effected areas with mild soap and water.
Eye:	In case of contact with eyes, rinse immediately with water for 15 minutes and seek medical advice.
Ingestion:	Obtain immediate medical attention.

## Material Safety Data Sheet

Date of Printing: 11/10/03

### 5. Firefighting Measures

Suitable extinguishing media: Foam, dry powder, CO<sub>2</sub>, water.

Particular risk arising from the product/products of combustion/generated gases: Carbon monoxide, carbon dioxide.

Protective Equipment: Use of self-contained breathing apparatus in close proximity of fire.

Further Information: Film may pick up surface static charges during its movement over metal or other rollers. They may cause flash fire or explosion if discharged into dust or solvent laden air.

### 6. Handling and Storage

Handling: Wash hands thoroughly after handling and before eating or smoking. Eye protection is recommended if ribbon is being slit or cut. Use adequate ventilation if 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.

### 7. Exposure Controls/Personal Protection

Technical protection measures: This product will slowly photo degrade with UV light exposure, shelter from light.

Personal protection equipment: Goggles for eye protection and particle mask for nose and throat protection during slitting process.

## Material Safety Data Sheet

Date of Printing: 11/10/03

### 8. Physical and Chemical Properties

Form:	Ink Coated Film
Color	Black
Odor:	Little or no odor
	<u>Value/Range</u>
Change in physical:	N/A
Melting point/melting range:	Ink: 110 +, - 5 degrees C. Film: 256-265 degrees C.
Boiling point/boiling range:	N/A
Flash points:	> 150 degrees C.
Ignition temperature:	N/A
Danger of explosion:	N/A
Explosion limit:	N/A
Vapor Pressure:	N/A
PH Value:	N/A
Solubility:	N/A
Viscosity:	N/A

### 9. Stability and Reactivity

Hazardous reaction:	Will not occur
Hazardous decomposition Products:	Terephthalic acid. CO and aldehyde above 300 degrees C.

## Material Safety Data Sheet

Date of Printing: 11/10/03

### **10. Toxicological Information**

This product has been formulated to ensure that it complies with EN-71, part 3: that is that the foil will contain levels below those listed below. This legislation concerns itself with the action of specific heavy metals under certain human conditions. The limits for which are listed here:

Lead		Pb	90 ppm
Cadmium	Cd		75 ppm
Chromium		Cr	60 ppm
Arsenic	As		25 ppm
Antimony	Sb		60 ppm
Mercury	Hg		60 ppm
Barium	Ba		500 ppm
Selenium	Se		500 ppm

### **11. Ecological Information**

No data available

### **12. Disposal Consideration**

Disposal Definition: Scrap film from slitting ribbon after printing barcode.

Waste Disposal: Disposal in accordance with local, state, and federal law.

**13. Transportation Information** No special information.

**14. Regulatory Information** No special information.

## **Material Safety Data Sheet**

Date of Printing: 11/10/03

### **15. 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 beyond our control.

The data given above is based upon current knowledge and experience. This safety data sheet is intended to describe product in terms of its safety requirement. It does not guarantee the properties of the product described.