

# Material Safety Data Sheet

## 1. Product and Company Information

Product: Thermal Transfer Ribbon  
Manufacturer's Name: Clover Technologies Group  
Telephone: 815-431-8100  
Address: 4200 Columbus St., Ottawa, IL 61350

## 2. Hazardous Ingredients/ Composition

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.  
Chemical Characteristics: ET Carrier  
Carbon Black  
Wax  
Resin

## 3. Physical/Chemical Characteristics

Form	Ink Coated Film
Color	Black
Odor	Little or no odor
	Value/Range
Change in physical	N/A
Melting point/melting range	Ink: 70 +/- 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
Lower limit	N/A
Upper limit	N/A
Vapor Pressure	N/A

Density	5.8g/m <sup>2</sup>
Solubility	N/A
Viscosity	N/A

#### 4. Firefighting Measures

Suitable extinguishing media: Foam, dry-chemical, carbon dioxide and water.

Particular risk arising from the products/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.

#### 5. Stability and Reactivity

Stability: Stable

Hazardous decomposition

Products: Terephthalic acid. CO and aldehyde above 300 degrees C.

#### 6. First-Aid Measures

Skin: Wash effected areas with soap and water.

Eye: Flush copiously with water for 15 minutes.

Ingestion: Obtain immediate medical attention.

#### 7. 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.

#### 8. 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.

## **9. Ecological Information**

No data available

## **10. Regulatory Information**

Nothing special

### ***ADDITIONAL 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.