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### 3. HAZARD IDENTIFICATION

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#### EMERGENCY OVERVIEW:

This product is a light Amber polyimide film with clear pressure sensitive adhesive and presents low hazard.

#### POTENTIAL HEALTH HAZARDS

##### EYE CONTACT:

Not a probable route of exposure for tape.

##### SKIN CONTACT:

No irritation is expected from handling tape. Contact of the skin with the pressure-sensitive adhesive face during product use may cause skin irritation or injury.

##### INHALATION:

Not a probable route of exposure for tape.

##### INGESTION:

Not a probable route of exposure for tape.

##### CHRONIC HEALTH HAZARDS:

None known.

##### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known.

Ingredients found on one of the OSHA-designated carcinogen lists are listed below:

Ingredient	NTP Status	IARC Status	OSHA Standard
N/A	N/A	N/A	N/A

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### 4. FIRST AID MEASURES

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#### EMERGENCY AND FIRST AID PROCEDURES

##### EYES:

Flush with water for 15 minutes. If irritation persists, contact a physician.

##### SKIN:

Wash with water and soap after handling. Should irritation develop, contact a physician.

##### INHALATION:

Not a probable route of exposure

##### INGESTION:

Not a probable route of exposure

##### NOTES TO PHYSICIAN:

None

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### 5. FIRE FIGHTING MEASURES

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**FLASHPOINT:** N/A

##### FIRE:

Not a fire or explosion hazard. The flammability characteristic of polyimide film is reported as "self-extinguishing." Polyimide film chars but does not burn in air. Polyimide will burn in an atmosphere of 100% oxygen. Use precautions of static charge during processing and when removing plastic films used as protective packaging.

The major off-gases are carbon dioxide and carbon monoxide.

##### SUITABLE EXTINGUISHING MEDIA:

Carbon dioxide gas, dry chemical, water and foam.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Material is incombustible under recommended conditions. Wear positive pressure self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Due to the physical nature of the material spilling or releasing is not expected. Should material be released, pick up to prevent slipping hazard.

Waste disposal method: May be land filled in accordance with local and state regulations.

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**7. HANDLING AND STORAGE**

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**HANDLING:**

Once removed from packaging it should be protected against dust and other impurities. Wash hands thoroughly after handling.

**STORAGE:**

Should be kept in a cool (10°C – 25°C) dry place (40% – 75% humidity) away from direct sunlight or temperature extremes. Keep away from heat, sparks and open flames.

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**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:**

Safe handling of polyimide film at high temperatures (above 200°C / 392°F) requires adequate ventilation. Normal air circulation is sufficient if only small quantities of polyimide are involved. The need for added ventilation will depend on film quantity, temperature and exposure time combined.

**PROTECTIVE CLOTHING OR EQUIPMENT****RESPIRATORY PROTECTION:**

Use appropriate NIOSH-approved respirator in presence of decomposition fumes or dust.

**EYES AND FACE:**

Use of safety glasses is recommended

**HANDS/ARMS/BODY:**

Pressure-sensitive adhesive may stick to skin and cause superficial injury. Gloves are recommended as a good industrial practice.

**OTHER CLOTHING AND EQUIPMENT:**

Other protective clothing or equipment is not necessary for normal use.

**EXPOSURE GUIDELINES**

Guidelines exist for the following ingredients:

<b>Ingredient</b>	<b>ACGIH TLV</b>	<b>OSHA PEL</b>	<b>Other Limit</b>
N/A	N/A	N/A	N/A

Other exposure limits for the decomposition products normally associated with products use are as follows: N/A

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE

Light Amber polyimide film with clear pressure sensitive adhesive

### PHYSICAL STATE (20°C)

Solid material

### MOLECULAR WEIGHT

N/A

### CHEMICAL FORMULA

N/A

### ODOR

Minimal

### BOILING POINT (°C)

N/A

### MELTING POINT (°C)

N/A

### VAPOR PRESSURE

N/A

### VAPOR DENSITY

N/A

### EVAPORATION RATE

N/A

### % VOLATILES

<1%

### FLASHPOINT

N/A

### SOLUBILITY IN WATER

Insoluble

### SPECIFIC GRAVITY (H<sub>2</sub>O=1)

>1.4

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## 10. STABILITY AND REACTIVITY

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### STABILITY:

Stable at normal temperatures and storage conditions.

### INCOMPATIBILITY:

Strong oxidizers, acids, bases.

### HAZARDOUS DECOMPOSITION PRODUCTS:

At temperatures above 400°C (752°F), the major off-gases are carbon dioxide and carbon monoxide.

### HAZARDOUS POLYMERIZATION:

Will not occur.

### CONDITIONS TO AVOID:

Open flame, heat spark and any other sources of ignition.

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## 11. TOXICOLOGICAL INFORMATION

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### ACCUTE EFFECTS:

No acute effects have been identified.

### DELAYED EFFECTS:

No delayed or chronic effects have been identified.

### CARCINOGEN STATUS:

This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.

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## 12. ECOLOGICAL INFORMATION

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### ECOTOXICITY:

No specific studies have been conducted by CAPLINQ on the ecotoxicity or environmental fate of this material; however there is no indication that this material is a risk to the environment. This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

### EFFECT OF MATERIAL ON AQUATIC LIFE:

Aquatic Toxicity: Insoluble

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## 13. DISPOSAL CONSIDERATION

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### WASTE DISPOSAL METHOD:

Product may be disposed of in an approved land-fill or by incineration in accordance with national, state, local and regulations.

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## 14. TRANSPORT INFORMATION

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**DOT SHIPPING NAME:** Not Applicable

**UN NUMBER:** Not regulated for transportation

### DOT/ADR/RID/AND/IMDG/IATA CLASSIFICATION:

**Class:** Not regulated

**Item Number:** Not regulated

**This material is not classified under shipping regulations for dangerous goods.**

*This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.*

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## 15. REGULATORY INFORMATION

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### TOXIC SUBSTANCE CONTROL ACT (TSCA):

#### TSCA 8(b) Inventory Status:

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory

**TSCA 12(b) Export Notification:**

None

**SARA TITLE III / CERCLA:**

Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs) exist for the following ingredients:

<b>Ingredient</b>	<b>SARA/CERCLA</b>	<b>SARA</b>
N/A	N/A	N/A

Section 311 Hazard Class : N/D

**SARA 313 TOXIC CHEMICALS :**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

<b>CAS#</b>	<b>Chemical Name</b>	<b>% by Weight</b>
None	N/A	N/A

**EU Directive 2002/95/EC, Restriction of Hazardous Substances (RoHS):**

Compliant

**Additional Regulatory Information:**

N/A

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**16. OTHER INFORMATION**

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