
	<b>MATERIAL SAFETY DATA SHEET</b>  <b>- MSDS -</b>  <b>POLYIMIDE (PI)</b>  <b>TRACK-ETCHED MEMBRANE</b>	MSDS003	
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## SECTION 1 : COMPANY INFORMATION

### MANUFACTURER / DISTRIBUTOR

**it4ip SA**                      **ion track technology for innovative products**  
 Address:                      avenue Jean-Etienne Lenoir, 1 – 1348 Louvain-la-Neuve - Belgium  
 Tel:                                +32 (0)10 226114  
 Mail:                              contact@it4ip.be

### MSDS MANAGER

Manager:                      Quality Manager

## SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

Trade name:                  ipPORE™ Track Etched Membrane  
 Generic name:                Polyimide (PI) Track Etched Membrane  
 Other trade name: ipBLACK™ Track Etched Membrane  
                                      ipCELLCULTURE™ Track Etched Membrane  
 Chemical name:              Polyimide  
 Chemical formula: -  
 CAS N°:                        -  
 % weight                      > 98 %  
                                      Exposure limits for the following may apply :  
                                      DIMETHYL ACETAMIDE (residual in film) CAS # 127-19-5                      < 1%  
                                      POLYIMIDE POLYMER (as nuisance dust) CAS# 25038-81-7  
 EINECS                         unlisted

## SECTION 3 : HAZARD IDENTIFICATION / EMERGENCY OVERVIEW

### APPEARANCE

Translucent (white or orange) or transparent solid porous film.

### CLASSIFICATION

This product is not classified as dangerous according to directive 1999/45/EC.

### ADVERSE HUMAN HEALTH EFFECTS


No irritation is expected from handling film.

### TARGET ORGANS

None determined.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None found.

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#### **SECTION 4 : FIRST AID MEASURES**

##### **CONTACT WITH EYES**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; have the victim remove contact lenses if he is wearing them and continue rinsing.

Eye injury could result from physical impact; get medical attention immediately.

##### **INGESTION**

This material is not expected to present an ingestion hazard in the form and quantities present in a workplace setting. However, if ingestion occurs, induce vomit and seek medical advice.

##### **INHALATION**

This product is not considered to represent an inhalation hazard.

Move the victim to the fresh air when inhales the gas decomposed from molten polymer or burning; medical check if still feels bad.

##### **SKIN CONTACT**

Repeated or prolonged contact may cause dry or irritated skin.

Cool down affected area immediately with plenty of water if contact the molten polymer; do not remove the resin if sticking to the skin and seek medical advice.

#### **SECTION 5 : FIRE FIGHTING MEASURES**

Polyimide Track Etched Membrane can be combusted by remaining in contact with flame.

During processing, film may pick up a strong static charge; avoid discharge into dust or solvent laden air as a flash fire or explosion may result.

##### **SUITABLE EXTINGUISHING MEDIA**

Water-spray, water-fog, water-stream, CO<sub>2</sub>, dry-chemical, foam, earth or sand, and remove from source of flame.

No unsuitable extinguishing media found.

##### **SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES**


During a fire, irritating and highly toxic gases and fumes (carbon dioxide, carbon monoxide, organic acids, aldehydes, alcohols) may be generated by thermal decomposition and combustion.

##### **SPECIFIC FIRE-FIGHTING MEASURES**

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

##### **SPECIFIC FIRE-FIGHTING MEASURES**

Evacuate non-essential personnel to safe area.

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## SECTION 6 : ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear proper protective equipment.

### SMALL AND LARGE SPILLS

Collect material into suitable, covered container for disposal; unused membranes may be disposed as ordinary trash.

### ADVERSE ENVIRONMENTAL AND PHYSIOCHEMICAL EFFECTS

The polymeric components of this product are not expected to biodegrade significantly in contact with soils or natural waters.

### CLEAN UP MEASURES

The consolidated nature of the product allows spilled product to be manually collected and placed in a container for proper disposal.

## SECTION 7 : HANDLING AND STORAGE

### HANDLING

Avoid rough handling or dropping to maintain product integrity and cleanliness.  
Take precautionary measures against static discharges.

### STORAGE

Store in dark and dry location at temperature from 5°C (41°F) to 35°C (95°F).  
Keep away from sources of ignition – no smoking.  
No specific container is designated.

## SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

### ENGINEERING MEASURES

Use static eliminator against static charge


### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory protection:** No specific breathing apparatus is typically needed; nature of fluids process may nevertheless dictate the use of respiratory protection.

**Ventilation:** General ventilation is adequate for most applications.  
Process involving material heating may require exhaust ventilation to keep the concentration of decomposition products below applicable exposure limits.

**Eye protection:** Safety glasses with side shields are adequate for normal use of this product.

**Skin protection:** Wear appropriate protective gloves to prevent skin exposure.

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## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	solid (porous)
Color:	translucent (white or orange) or transparent
Odor:	odorless
Melting point:	none
Flash point:	not known
Ignition temperature:	not known
Explosion:	none
Vapor pressure:	none
Density:	1.42 g/cm <sup>3</sup>
Solubility:	insoluble in water

## SECTION 10 : STABILITY AND REACTIVITY

### STABILITY AND REACTIVITY

This product is considered as a stable material under normal storage and handling conditions.

### INCOMPATIBILITY

Hydrolyzed with bases.

### DECOMPOSITION PRODUCTS

Not applicable at normal storage conditions.


Toxic gases and fumes (carbon dioxide, carbon monoxide, organic acids, aldehydes, alcohols) may be generated by thermal decomposition.

## SECTION 11 : TOXICOLOGICAL INFORMATION

Inhalation:	this product does not pose an inhalation health hazard.
Ingestion:	this product does not pose an ingestion health hazard.
Skin contact:	this product does not pose an skin health hazard.
Eye contact:	this product does not pose an eye injury hazard.
Carcinogenicity:	none.
Chronic toxicity:	no adverse health effects are expected from prolonged or repeated exposure to this product.
Toxicology data:	oral ALD > 10.000 mg/kg in rats

## SECTION 12 : ECOLOGICAL INFORMATION

Biotransportability:	none
Biodegradability:	this product persists in the soil.
Bioaccumulation:	none
Ecological and fish toxicity:	none; toxicity is expected to be low based on insolubility in water.

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### SECTION 13 : DISPOSAL INFORMATION

To follow local regulations regarding disposal.

European Union: Once exhausted, this membrane filter should be considered according to the European Waste catalogue (European commission decision of 03/05/01 modifying directives 94/3/CE and 75/442/CE) as part of the following categories : when used to filter non-dangerous substances : 20 01 39, separately collected fractions, plastics; other uses involving dangerous substances : consult the European Waste Catalogue for specific classifications.

United States : PI is not a US Environmental Protection Agency RCRA Hazardous Waste. Transport and dispose of waste membrane in accordance with all federal, state and local regulations.

### SECTION 14 : TRANSPORTATION INFORMATION

Transportation must be in accordance with applicable federal, state, provincial and local regulations.

Specific safety measures and conditions on transport: keep at dry place to prevent from carton box crushes by wetting; do not give a shock.

### SECTION 15 : LOCAL REGULATIONS.REGULATORY INFORMATION

Ensure this material in compliance with federal requirements and ensure conformity to local regulations. (United States toxic substances control act (TSCA): in accordance with TSCA inventory requirements for commercial purposes).

### SECTION 16 : ADDITIONAL INFORMATION

Abbreviations used :

ALD Approximate Lethal Dose  
 RCRA Resource Conservation and Recovery Act  
 TSCA Toxic Substances Control Act

This safety data sheet has been prepared to comply with the requirements of European Union Directive 2001/58/EC and ANSI Z400.1-1998.

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