



**MATERIAL SAFETY DATA SHEET**


**- MSDS -**

**POLYCARBONATE (PC)  
TRACK-ETCHED MEMBRANE**

MSDS001

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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:              Polycarbonate (PC) Track Etched Membrane  
Other trade name: ipBLACK™ Track Etched Membrane  
                                  ipCELLCULTURE™ Track Etched Membrane  
Chemical name:            Bisphenol-A Polycarbonate  
Chemical formula:  $(-C_{16}H_{14}O_3-)_n$   
CAS N°:                    25037-45-0  
% weight                    > 99 %  
                                  Other < 1%; not known to contain toxic chemicals  
EINECS                      unlisted

## SECTION 3 : HAZARD IDENTIFICATION / EMERGENCY OVERVIEW

### APPEARANCE

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

### CLASSIFICATION

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

### ADVERSE HUMAN HEALTH EFFECTS


Repeated or prolonged skin contact may cause slight skin irritation.

### 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**

Polycarbonate 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 film (porous)
Color:	translucent (white or black) or transparent
Odor:	Odorless
Melting point:	220°C (428°F)
Flash point:	226°C (440°F)
Ignition temperature:	580°C (1070°F) - estimation
Explosion:	none
Vapor pressure:	none
Density:	1.2 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.

**CONDITIONS TO AVOID**

Elevated temperatures (>225 °C) release flammable vapors.

**SECTION 11 : TOXICOLOGICAL INFORMATION**

Inhalation:	this product does not pose an inhalation health hazard.
Ingestion:	this product does not pose an ingestion health hazard (acute oral estimated to be > 5.0g/kg)
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:	Bisphenol-A polycarbonate or Poly(oxycarbonyloxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene) Bisphenol-A polycarbonate RTECS# TR1580150 LD50, oral, rat >10 gm/kg - LD50, oral, mouse >10 gm/kg

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## 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.

## 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 : PC 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

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

LD50 Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.

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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