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### SECTION 1 : PRODUCT AND COMPANY INFORMATION

**Trade name :** it4ip™ polyimide track-etched membrane

**Chemical name :** porous polyimide track-etched membrane

**Other trade names & synonyms :** ipPORE™, ipBLACK™, ipCLEAR™, ipCELLCULTURE™ and CRYSTAL CLEAR™ track-etched membrane

**Manufacturer / Distributor :** it4ip s.a.  
avenue Jean-Etienne Lenoir, 1  
1348 Louvain-la-Neuve (Belgium)  
phone +32 (0)10 226114  
[contact@it4ip.be](mailto:contact@it4ip.be)

### SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Chemical name	% weight	EINECS*	Symbol	R
-	polyimide	100	unlisted	none	none

\*EINECS – ELINCS

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	

### SECTION 3 : HAZARD IDENTIFICATION / EMERGENCY OVERVIEW

<b>Appearance :</b>	White or orange porous film.
<b>Contact with eyes :</b>	Not a probable route of exposure for film.
<b>Ingestion :</b>	Not a probable route of exposure for film.
<b>Inhalation (short term) :</b>	Not a probable route of exposure for film.
<b>Inhalation (long term) :</b>	Not a probable route of exposure for film.
<b>Skin contact :</b>	No irritation is expected from handling film.

### SECTION 4 : FIRST AID MEASURES

<b>Contact with eyes :</b>	Eye injury could result from physical impact. Get medical attention immediately.
<b>Ingestion :</b>	Not a probable route of exposure for film.
<b>Inhalation :</b>	Not a probable route of exposure for film.
<b>Skin contact :</b>	Wash exposed skin thoroughly with soap or mild detergent and water. If irritation persists or develops, seek medical attention.

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<b>SECTION 5 : FIRE FIGHTING MEASURES</b>
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<b>Flammable properties</b>	Not a fire or explosion hazard; the flammability of polyimide film is reported as self-extinguishing.
<b>Suitable extinguishing media :</b>	Water-spray, water-fog, water-stream, CO2, dry-chemical, foam.
<b>Unsuitable extinguishing media :</b>	None found.
<b>Special protective equipment for firefighters :</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand mode and full protective gear. During a fire, irritating and highly toxic gases and fumes may be generated by thermal decomposition and combustion.
<b>Special exposure hazards :</b>	Polyimide chars but does not burn in air. Polyimide film will burn in an atmosphere of 100% oxygen. The major off-gases are carbon dioxide and carbon monoxide.
The <b>processing of polyimide film</b> can cause the generation of static charge. Precautions for static charges should also be taken when removing plastic films used as protective packaging.	

<b>SECTION 6 : ACCIDENTAL RELEASE</b>
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<b>Personal precautions :</b>	Personal precautions will be determined by the nature of the fluids being processed, if other than water.
<b>Small spills :</b>	Collect material into suitable, covered container for disposal. Unused membranes may be disposed as ordinary trash.
<b>Large spills :</b>	Collect material into suitable, covered container for disposal. Unused membranes may be disposed as ordinary trash.
<b>Environmental precautions :</b>	The materials of construction do not pose an environmental hazard.
<b>Clean up measures :</b>	The consolidated nature of the product allows spilled product to be manually collected and placed in a container for proper disposal.

<b>SECTION 7 : HANDLING AND STORAGE</b>
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<b>Handling :</b>	Handle with care to maintain the integrity and cleanliness of the filter unit.
<b>Storage :</b>	Store membranes in cool, dry location, away from excess moisture and flammable materials.

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### SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

	Normal handling conditions :	Emergency response conditions :
<b>Respiratory protection :</b>	Typically, respirator use is not required. The nature of the fluids being processed may dictate the use of respiratory protection.	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Ventilation :</b>	Membrane is a non-volatile solid and general ventilation is adequate. Processing which heats the material may require exhaust ventilation to keep the concentration of decomposition products below applicable exposure limits.	General ventilation is adequate for most applications.
<b>Eye protection :</b>	Safety glasses with side shields are adequate for normal use of this product	Safety glasses with side shields are adequate for normal use of this product
<b>Skin protection :</b>	Wear appropriate protective gloves to prevent skin exposure.	Wear appropriate protective gloves to prevent skin exposure.

### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES


<b>Appearance :</b>	White or orange porous solid
<b>Odor :</b>	Odorless
<b>Odor threshold :</b>	Not available
<b>pH :</b>	Not applicable
<b>Melting point :</b>	None
<b>Boiling point :</b>	None
<b>Solubility :</b>	Insoluble
<b>Specific gravity (Water = 1.0) :</b>	➤ 1.4

### SECTION 10 : STABILITY AND REACTIVITY

<b>Chemical stability :</b>	Stable at normal temperatures and pressure.
<b>Incompatible with :</b>	None reasonably foreseeable.
<b>Hazardous decomposition products :</b>	At temperature above 400°C, the major off-gases are carbon monoxide and carbon dioxide.

### SECTION 11 : TOXICOLOGICAL INFORMATION

<b>Inhalation :</b>	This product does not pose an inhalation health hazard.
<b>Ingestion :</b>	This product does not pose an ingestion health hazard.
<b>Skin Contact :</b>	This product does not pose an skin health hazard.
<b>Eye Contact :</b>	This product does not pose an eye injury hazard.

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#### SECTION 12 : ECOLOGICAL INFORMATION

Polyimide is insoluble.

#### SECTION 13 : DISPOSAL INFORMATION

**Waste disposal** : landfill or incinerate in compliance with federal, state and local regulations.

#### SECTION 14 : TRANSPORTATION INFORMATION

Polyimide is not currently regulated as a hazardous material or dangerous goods by USDOT, ICAO/IATA, ADR or IMO regulations.


#### SECTION 15 : REGULATORY INFORMATION

<b>Australia :</b>	Hazchem code : not available Poisons schedule number : not available
<b>California :</b>	No significant risk level : none of the chemicals in this product are listed.
<b>Canada WHMIS :</b>	This product has a WHMIS classification of not controlled.
<b>European Union Symbols :</b>	Not available Category of danger : not available Risk phrases : not available Safety phrases : not available OECD/High production volume (HPV) chemicals : not available WEEE : not available RoHS : not available

#### SECTION 16 : ADDITIONAL INFORMATION

Abbreviations used :

<b>ACGIH</b>	American Conference of Government Industrial Hygienists
<b>ADR</b>	European agreement on the international carriage of dangerous goods on road
<b>CAS</b>	Chemical Abstract Service
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS</b>	European List of Notified Chemical Substances
<b>EPA</b>	United States Environmental Protection Agency
<b>IARC</b>	International Agency for Research in Cancer
<b>IATA</b>	International Air Transport Association
<b>ICAO</b>	International Civil Aviation Organization
<b>IMDG</b>	Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization
<b>LC50</b>	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population
<b>LD50</b>	Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.
<b>LDLo</b>	Lowest observed lethal dose
<b>MSFU</b>	Manufacture, Formulation, Supply and Use (Section 13)
<b>NIOSH</b>	National Institute of Occupational Safety and Health (US)

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- NTP** National Toxicology Program (US)  
**OSHA** United States Occupational Safety and Health Administration RID International regulations concerning the international carriage of dangerous goods by rail  
**RTECS** Registry of Toxic Effects of Chemical Substances (US)  
**WHMIS** Workplace Hazardous Materials Information System (Canada)

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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