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SECTION 1 : PRODUCT AND COMPANY INFORMATION

Trade name : it4ip™ polycarbonate track-etched membrane

Chemical name : porous polycarbonate track-etched membrane

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

Manufacturer / Distributor : it4ip s.a., rue Jules Bordet (Z.I. C – Activalis)
7180 Seneffe (Belgium)
phone +32 (0)64 371001
contact@it4ip.be


SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Chemical name	% weight	EINECS*	Symbol	R
24936-68-3	bisphenol-A polycarbonate resin	> 98	unlisted	none	none

*EINECS - ELINCS

SECTION 3 : HAZARD IDENTIFICATION / EMERGENCY OVERVIEW

Appearance :	White or black 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.
Contact with eyes :	Although unlikely to occur, eye contact may cause irritation.
Ingestion :	Although unlikely to occur, ingestion may cause digestive tract irritation.
Inhalation (short term) :	This product is not considered to represent an inhalation hazard.
Inhalation (long term) :	This product is not considered to represent an inhalation hazard.
Skin contact :	Repeated or prolonged contact may cause dry or irritated skin.
Target organs :	None determined.
Medical conditions aggravated by exposure :	None found.
Adverse environmental effects :	The polymeric components of this product are not expected to biodegrade significantly in contact with soils or natural waters.
Adverse physiochemical effects :	The polymeric components of this product are not expected to biodegrade significantly in contact with soils or natural waters.

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SECTION 4 : FIRST AID MEASURES


Contact with eyes :	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, seek medical attention.
Inhalation :	Inhalation is not considered a likely route of exposure.
Skin contact :	Wash exposed skin thoroughly with soap or mild detergent and water. If irritation persists or develops, seek medical attention.

SECTION 5 : FIRE FIGHTING MEASURES

Flash ignition temperature :	226°C
Autoignition temperature : (ASTM D1929)	630°C (estimated)
Suitable extinguishing media :	Water-spray, water-fog, water-stream, CO2, dry-chemical, foam, earth or sand, and remove from source of flame.
Unsuitable extinguishing media :	None found.
Special protective equipment for firefighters :	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.
Special exposure hazards :	Under fire conditions, toxic carbon and fluorine containing compounds will be emitted.

SECTION 6 : ACCIDENTAL RELEASE

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

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SECTION 7 : HANDLING AND STORAGE


Handling :	Handle with care to maintain the integrity and cleanliness of the filter unit.
Storage :	Store membranes in cool, dry location, away from excess moisture.

SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

	Normal handling conditions :	Emergency response conditions :
Respiratory protection :	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.
Ventilation :	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.
Eye protection :	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
Skin protection :	Wear appropriate protective gloves to prevent skin exposure.	Wear appropriate protective gloves to prevent skin exposure.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	White or black porous solid
Odor :	Odorless
Odor threshold :	Not available
pH :	Not applicable
Melting point :	Not available
Boiling point :	Not available
Flash ignition point :	226 °C
Explosive properties :	None
Oxidizing properties :	None
Vapor pressure (20 °C) :	Not available
Solubility :	Insoluble
Specific gravity (Water = 1.0) :	1.2
Vapor Density (20 °C) :	Not available
Viscosity (centipoises) :	Not applicable
Partition coefficient (n-octanol/water) :	Not applicable

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SECTION 10 : STABILITY AND REACTIVITY

Chemical stability :	Stable at normal temperatures and pressure.
Incompatible with :	Strong oxidizing agents.
Hazardous decomposition products :	Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, acid smoke and fumes.
Conditions to avoid :	Elevated temperatures (>225 °C) release flammable vapors.
Hazardous Polymerization :	Has not been reported.

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 a skin health hazard.
Eye Contact :	This product does not pose an eye injury hazard.
Carcinogenicity :	Bisphenol-A polycarbonate polymers are not listed as carcinogenic by IARC, NIOSH, NTP, or OSHA.
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

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity :	Bisphenol-A polycarbonate membranes are not expected to readily degrade in contact with water or the soil.
Environmental Fate :	No information found

SECTION 13 : DISPOSAL INFORMATION

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 :	Bisphenol-A polycarbonate 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.

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SECTION 14 : TRANSPORTATION INFORMATION

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


SECTION 15 : REGULATORY INFORMATION

Australia :	Hazchem code : not available Poisons schedule number : not available
California :	No significant risk level : none of the chemicals in this product are listed.
Canada WHMIS :	This product has a WHMIS classification of not controlled.
European Union Symbols :	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
Japan poisonous and deleterious substances control law :	Not available
United Kingdom control of substances hazardous to health regulations 2002 (COSHH) Rating :	Not available
United States toxic substances control act (TSCA) :	Bisphenol-A polycarbonate is listed on the TSCA Inventory or is an excluded polymer.

SECTION 16 : ADDITIONAL INFORMATION

Abbreviations used :


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

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- 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.

it4ip is a registered trademark of UCL (Université catholique de Louvain, Belgium)

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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., rue Jules Bordet (Z.I. C – Activalis)
7180 Seneffe (Belgium)
phone +32 (0)64 371001
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

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

SECTION 4 : FIRST AID MEASURES

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

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SECTION 5 : FIRE FIGHTING MEASURES


Flammable properties	Not a fire or explosion hazard; the flammability of polyimide film is reported as self-extinguishing.
Suitable extinguishing media :	Water-spray, water-fog, water-stream, CO2, dry-chemical, foam.
Unsuitable extinguishing media :	None found.
Special protective equipment for firefighters :	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.
Special exposure hazards :	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 processing of polyimide film can cause the generation of static charge. Precautions for static charges should also be taken when removing plastic films used as protective packaging.	

SECTION 6 : ACCIDENTAL RELEASE

Personal precautions :	Personal precautions will be determined by the nature of the fluids being processed, if other than water.
Small spills :	Collect material into suitable, covered container for disposal. Unused membranes may be disposed as ordinary trash.
Large spills :	Collect material into suitable, covered container for disposal. Unused membranes may be disposed as ordinary trash.
Environmental precautions :	The materials of construction do not pose an environmental hazard.
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 :	Handle with care to maintain the integrity and cleanliness of the filter unit.
Storage :	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 :
Respiratory protection :	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.
Ventilation :	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.
Eye protection :	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
Skin protection :	Wear appropriate protective gloves to prevent skin exposure.	Wear appropriate protective gloves to prevent skin exposure.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES


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

SECTION 10 : STABILITY AND REACTIVITY

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

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 a skin health hazard.
Eye Contact :	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

Australia :	Hazchem code : not available Poisons schedule number : not available
California :	No significant risk level : none of the chemicals in this product are listed.
Canada WHMIS :	This product has a WHMIS classification of not controlled.
European Union Symbols :	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 :


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

it4ip is a registered trademark of UCL (Université catholique de Louvain, Belgium)

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SECTION 1 : PRODUCT AND COMPANY INFORMATION

Trade name : it4ip™ polyester (PET) track-etched membrane

Chemical name : porous polyester (PET) track-etched membrane

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


Manufacturer / Distributor : it4ip s.a., rue Jules Bordet (Z.I. C – Activalis)
7180 Seneffe (Belgium)
phone +32 (0)64 371001
contact@it4ip.be

SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

CAS No.	Chemical name	% weight	EINECS*	Symbol	R
25038-59-9	polyethylene terephthalate	> 98 ¹	unlisted	none	none
*EINECS – ELINCS ¹ silica filler (< 1%) may be present not known to contain toxic chemicals					

SECTION 3 : HAZARD IDENTIFICATION / EMERGENCY OVERVIEW

Appearance :	White or black 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.
Contact with eyes :	Although unlikely to occur, eye contact may cause irritation.
Ingestion :	Although unlikely to occur, ingestion may cause digestive tract irritation.
Inhalation (short term) :	This product is not considered to represent an inhalation hazard.
Inhalation (long term) :	This product is not considered to represent an inhalation hazard.
Skin contact :	Repeated or prolonged contact may cause dry or irritated skin.
Target organs :	None determined.
Medical conditions aggravated by exposure :	None found.
Adverse environmental effects :	The polymeric components of this product are not expected to biodegrade significantly in contact with soils or natural waters.
Adverse physiochemical effects :	The polymeric components of this product are not expected to biodegrade significantly in contact with soils or natural waters.

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SECTION 4 : FIRST AID MEASURES

Contact with eyes :	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, seek medical attention.
Inhalation :	Inhalation is not considered a likely route of exposure.
Skin contact :	Wash exposed skin thoroughly with soap or mild detergent and water. If irritation persists or develops, seek medical attention.

SECTION 5 : FIRE FIGHTING MEASURES

Membranes can be combusted only by remaining in contact with flame	
Suitable extinguishing media :	Water-spray, water-fog, water-stream, CO2, dry-chemical, foam, earth or sand, and remove from source of flame.
Unsuitable extinguishing media :	None found.
Special protective equipment for firefighters :	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.
Special exposure hazards :	Under fire conditions, carbon dioxide, carbon monoxide, organic acids, aldehydes, alcohols are produced.
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.	

SECTION 6 : ACCIDENTAL RELEASE

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

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SECTION 7 : HANDLING AND STORAGE**Handling :**

Handle with care to maintain the integrity and cleanliness of the filter unit.

Storage :

Store membranes in cool, dry location, away from excess moisture. Rolls may telescope. Membrane can pick up static electricity.

SECTION 8 : EXPOSURE CONTROL AND PERSONAL PROTECTION

	Normal handling conditions :	Emergency response conditions :
Respiratory protection :	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.
Ventilation :	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.
Eye protection :	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
Skin protection :	Wear appropriate protective gloves to prevent skin exposure.	Wear appropriate protective gloves to prevent skin exposure.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	White or black porous solid
Odor :	Odorless
Melting point :	+/- 260 °C
Vapor pressure (20 °C) :	Not available
Solubility :	Insoluble
Specific gravity (Water = 1.0) :	1.2

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SECTION 10 : STABILITY AND REACTIVITY

Chemical stability :	Stable at normal temperatures and pressure.
Incompatible with :	Strong acids and bases may hydrolyze the membrane. Avoid contact with strong oxidizing agents.
Hazardous decomposition products :	Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, hydrocarbon oxidation products such as organic acids, aldehydes, alcohols, ketones and acrolein.
Hazardous Polymerization :	Will not occur.

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 a 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

Ecotoxicity :	no information is available; toxicity is expected to be low based on insolubility in water.
Environmental Fate :	No information found.

SECTION 13 : DISPOSAL INFORMATION

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 :	PET 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.

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SECTION 14 : TRANSPORTATION INFORMATION

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

SECTION 15 : LOCAL REGULATIONS. REGULATORY INFORMATION

United States toxic substances control act (TSCA) : in accordance with TSCA inventory requirements for commercial purposes.

SECTION 16 : ADDITIONAL INFORMATION

Abbreviations used :

ACGIH	American Conference of Government Industrial Hygienists
ADR	European agreement on the international carriage of dangerous goods on road
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EPA	United States Environmental Protection Agency
IARC	International Agency for Research in Cancer
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ICAO	International Civil Aviation Organization
IMDG	Regulations regarding the transportation of dangerous goods on ocean-going vessels issued by the International Maritime Organization
LC50	Lethal Concentration 50% is the concentration of a chemical which kills 50% of a sample population
LD50	Lethal Dose 50% is the dose of a chemical which kills 50% of a sample population.
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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)

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