

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

1. IDENTIFICATION				
Product Name	• POLYESTER STAPLE FIBER			
Trade Name	• INDORAMA			
Application of the Product	• Textile, Non-Woven, Spunlace.			
Details of the supplier of the safety data sheet				
Manufacturer	<ul style="list-style-type: none"> • Indorama Polyester Industries PCL 6, I-2 Rd, Tambol Map-Ta-Phut Amphur Muang Rayong, Rayong Province 21150 			
Telephone (General)	• +66 38-683-870-8			
Emergency telephone number				
Manufacturer	• +66 38-687-528			
2. HAZARD IDENTIFICATION				
Classification:	NotApplicable			
Risk phrases:	NotApplicable			
Safety phrases:	NotApplicable			
This product is not considered hazardous. The hazards if any are associated with its processing. Polymer dust may represent a fire hazard at sufficient concentrations in presence of ignition sources.				
3. COMPOSITION / INFORMATION ON INGREDIENTS				
Composition:				
Chemical Name	CAS number	EINECS/ELINCS	Conc. (%)	EC Classification
Polyethylene Terephthalate	25038-59-9	Not listed	>97.0 %	Not classified
Additives	-	-	<3.0 %	-

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4. FIRST AID MEASURES	
Inhalation:	Inhalation of fibre fly, dust and finish decomposition products should be avoided by good hood suction and fresh air ventilation. In case of coughing or other symptoms the person should seek fresh air and - if necessary – see a physician
Skin contact:	Wash with soap and water. If irritation develops, consult a physician.
Eye contact:	The eyes should be washed immediately with plenty of water. If irritation continues, consult a physician.
Ingestion:	Do not induce vomiting. Call in a physician and show him the Data Sheet.
5. FIRE-FIGHTING MEASURES	
Extinguishing media:	All usual extinguishing media can be used.
Special hazards arising from the substance:	Hazardous burning / decomposition products: Oxides of Carbon (CO, CO ₂), oxides of Phosphorus and toxic low-molecular-weight organic compounds (e.g. aldehydes, organic acids, polymer fragments) depending on temperature and air supply.
Advice for firefighters:	Use self-contained breathing apparatus.
Additional information:	Collect and dispose of residues and contaminated fire water separately and according to local / national legislation. Do not allow them to enter drains and waterways or the soil.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedure:	Wear personal protective clothing. Do not inhale fibre dust/fly. Avoid skin and eye contact. Keep unprotected people away.
Environmental precautions:	Do not allow to enter drains or waterways or soils.
Methods and material for containment and cleaning up:	Pick up fibre product mechanically. Remove fibre dust by using a vacuum cleaner.

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7. HANDLING AND STORAGE**Precautions for safe handling:**

Proper handling and processing does not require special technical protective measures. Avoid formation of dust and fibre fly. Accumulation of fibre dust and fly may represent at sufficient concentrations a fire and explosion hazard. Remove ignition sources. Beware of electrostatic charges. If subsequent processing involves the use of water, the waste water should be given the appropriate treatment in a purifying plant, in line with local regulations.

Conditions for safe storage, including any incompatibilities :

Bales must be stored in line with existing provisions, with regard to the fire load existing fire protection provisions have to be observed, i.e. proper fire protection measures have to be applied.

Protect product against dust, moisture, direct sunlight, electrostatic charges and ignition sources.

Specific end use(s):

Consult the manufacturer if the fibre product is to be used for special applications such as in the food industry, or in the hygienic, in the medical or surgical sector.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters:**

Avoid accumulation of any contact with fibre dust/fly and decomposition products (released by polymer / textile processing aids at high temperatures) by a good functioning hood suction / sufficient fresh air supply and proper house keeping.

Comply with national occupational threshold values for dust. According to TRGS 900 (Germany) there are two values:

- a) 3 mg/m³ - for fine dust (A-Staub – may penetrate alveoles)
- b) 10 mg/m³ - for coarse dust (E-Staub – respirable dust)

Exposure controls:

- Personal protection measures:
 - + Eye protection: safety glasses with side shields
 - + Hand, skin and body protection: Wear impermeable protective clothing. Fibres that are processed at high speeds may cause abrasions or cuts. Appropriate protective measures have to be observed.
 - + Inhalation protection: no special measurements required, except for fire or insufficient hood suction / fresh air supply
 - + Work place hygiene: continuously clean the working area by wet or vacuum cleaning in order to avoid the accumulation of fibre dust/fly. The general provisions on industrial work hygiene have to be observed. Do not eat, drink or smoke during work. Clean protective clothing regularly if contaminated with fibre dust/fly.
- Limitation of the environmental exposure:

Exhausted fibre dust/fly and decomposition products shall be kept back efficiently by adequate filter systems and disposed of according to local regulations/provisions.

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9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance :	Staple Fiber
Odour :	Odourless
Boiling Point :	Not Applicable
Specific Gravity(H ₂ O=1) :	1.3 - 1.4 (at 20 °C)
Vapor Pressure :	Not Applicable
Melting Point (°C):	245- 255
pH :	4.0 – 7.5
Solubility(In Water) :	Insoluble
Vapor Density (air=1) :	Not Applicable
Evaporation Rate :	Not Applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage and handling conditions. Best before use upto one year from date of production.
Reactivity:	None under normal storage conditions.
Possibility of hazardous reactions:	None under normal storage conditions.
Conditions to avoid:	Temperatures above 240 °C (thermal degradation / decomposition).
Incompatible materials:	Strong oxidation agents, strong caustics and acids.
Hazardous decomposition products:	None under normal storage conditions.

11. TOXICOLOGICAL INFORMATION

No specific data on toxicology are available. To date, proper use of these fibre products has not been associated with a special hazard or any detrimental effects on health. In analogy to standard polyethylene terephthalate fibre products we expect that also.

Hygiene Polyester Fiber do represent only a minor health hazard:

Acute oral toxicity:	None or only a minor toxicity is expected
Primary irritation effects:	
-Skin:	None or only a weak irritation is expected
- Eye:	Irritation caused by fibre dust/fly is expected
- Respiratory organ:	Irritation caused by fibre dust/fly is expected.

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12. ECOLOGICAL INFORMATION

No specific data on eco-toxicology are available. In analogy to standard polyethylene terephthalate fibre products, we expect that also *Hygiene Polyester Fiber* do represent only a minor environmental hazard as the fibre products are in general insoluble in water, not readily biodegradable and mechanically separable.

Components of the textile processing aid may vaporize or decompose at temperatures above 130 °C.

If subsequent processing involves the use of water, the waste water should be given the appropriate treatment in a purifying plant, in line with local regulations.

13. DISPOSAL CONSIDERATIONS

If recycling is not possible, the fibre product can be disposed of in a suitable refuse installation or incinerated subject to local regulations.

14. TRANSPORT INFORMATION

UN number:	Not applicable
Class/ Packing group:	Not restricted
Marine pollutant:	None
International Transport Regulations:	Not classified as dangerous for transport.
Road/ Rail (ADR/ RID):	Not restricted
Sea (IMDG):	Not restricted
Air (ICAO / IATA):	Not restricted

15. REGULATORY INFORMATION

The Products do not require hazard warning labels in accordance with EC directives.

Risk phrase(s): Not applicable

Safety phrase(s): Not applicable

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This safety data sheet is provided for the products and their applications as specified in Section 1. The safety data sheet is not written with the individual end-user in mind.

It is recommended that supplementary information be requested if an unusual application of these products is intended.

Consult the manufacturer if the product(s) is to be used for special applications (such as, but not limited to, the food, hygienic, medical or surgical sectors) or for new end-uses.

Further information:

The Product complies with the following regulations:

- REACH – Substance of Very High Concern(SVHCs)
- OEKO-TEX® Standard 100
- US-FDA regulation 21 CFR Section 177.1630
- European Legislation (EU) No10/2011
- RoHS Directive 2011/65/EU
- European Directive 94/62/EC – Heavy Metal Content

For other information, call Indorama operator at +66 2 6616657-63

The information contained herein is based on current knowledge and experience; No responsibility is accepted that the information is sufficient or correct in all cases.

Users should consider these data only as supplement to other information gathered by them.

They must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials for the safety and health of employees and customer and the protection of the environment.

It is the users obligation to comply with all applicable laws and regulations.

No statement made in this data sheet shall be constructed as a permission or recommendation for the use any product in a manner that might infringe existing patents. No warranty is made either express or implied.