

MATERIAL SAFETY DATA SHEET -FILAMENTS-

Issue 02 Revised NOV. 30, 2000
ACCORDING TO NORM 91/155/EEC

This document contains important health and safety data.
It must be read before the substance is used for the first time.

1. Substance Identification / Preparation and Company.

Yarn description.

Packing - presentation: Spool.

Generic material of the fiber: Polyester.

Chemical identification: Polyethylene terephthalate with spin finish residues and coning oil (in case of textured yarn).

CAS identification: Polyethylene terephthalate.

Commercial name and synonyms: Polyester POY, flat or textured yarn, Polyester FOY - different types: bright, semidull.

Supplier:

Enka de Colombia S.A.

Plant: Girardota - Antioquia.

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2. Composition - Information on Ingredients.

Composition

CAS register No. % .

Polymer

Polyethylene terephthalate 25038-59-9 85-99 .

Aditives

Titanium dioxide 13463-67-7 0 - 1.5 .

Spin finish 0 - 1.0 .

Coning oil (in case of textured yarn).0 - 4 .

Other ingredients

Catalyst residues de 0.3 / About 0.3 .

Chemistry formulation:

HO - [(CH₂)₂-OOC - C₆H₄ - COO-]_n - (CH₂)₂ - OH .

About special ingredients

Spin finish-coning oil. The material of the fiber is not toxic but it may content up to aprox. 1% of spin finish or up to 4% of a mixture of spin finish and coning oil in the case of textured yarn. If the product is to be used for special end-uses as for example in food industry or health care, please contact the supplier.

The material of the fiber has been studied for different applications. None risk concerning health has been detected up to now.

Materials used such as spin finish preparation or coning oils (case of textured yarns), sizing; etc must be removed in aqueous media.

In heat treatments with temperatures about 130 - 190°C, additives may decompose or evaporate. In further processes where water is used, existing regulations as for scouring or washing plants must be applied.

Dyestuff

Only colorants that do not decompose in type MAK-III A or IIIA2 amines or other cancerous substances according to supplier are used.

Residual solvent media: none.

3. Hazards.

Under normal conditions of exposure it is not probably for the product to be dangerous by inhalation, ingestion or direct skin contact. It may cause irritation in eyes.

4. First-Aid Measures.

By inhalation:

There is not a specific indication because it is not probable for the material to be harmful this way.

Dust and decomposition products of spin finish and/or coning oil are present in minimal amounts in working places due to the normal conditions regarding ventilation and aspiration.

By eyes contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

By skin contact:

It is improbable for the product to cause skin irritation. If it occurs, wash with soap and water; if it persists, ask the physician.

By ingestion:

Non toxic. Wash mouth with water and consult a physician.

5. Fire-fighting Measures.

Performance on fire:

Non applicable.

Product only burns in presence of flame.

Self ignition point: 450 - 510oC

Decomposition point: above 350 °C

Dangerous combustion products:

Carbon dioxide

Carbon monoxide

Avoid development of electrostatic charges.

Suitable extinguishing media:

Water, dry chemical dust and CO₂.

Special exposure hazards:

Use self contained breathing apparatus to protect personal from smoke inhalation while fighting fire.

6. Accidental Spill Measures.

Non applicable

7. Handling & Storage.

Handling:

Spools, cops, boxes and pallets must be handled according to instructions given in stickers.

Stacking:

The product has to be storage in a fresh, dry and sun protected location. It also requires ventilation system. The floor has to be leveled and firm.

Maximum storage height recommended: 2 pallets.

Provide adequate space (at least 2.8 m) between rows for fork lift truck and fire fighting access, and a clearance of at least 0.5 m between pallets and sprinkler heads present.

Persons must not climb on stacks.

8. Exposure Controls - Personal Protection.

Breathing protection

It is not probable for the product to cause breathing problems in a healthy person.

Skin protection

Yarns, when processed at high speeds, may cause injures due to abrasion or cuts. In this case it is advisable to avoid contact with the skin.

9. Physical and Chemical Properties.

Appearance

Shape.

There are 3 possible presentations in case of polyester filaments:

POY continuous yarn.

Continuous textured filament yarn.

Continuous filament flat yarn.

Odor:

Odorless or with light odor due to the presence of spin finish and/or coning oil (in the case of textured yarn).

Color:

white, semidull or bright.

Important data concerning security aspects.

Specific gravity and density: Aprox. 1.30 - 1.40 g/cm³

Melting point: Máx. 260 °C - Max. 500 °F.

Autoignition temperature: 450 °C - 842 °F.

Solubility in water: Insoluble.

Decomposition temperature: above 350 °C.

Other characteristics: See specifications.

10. Stability & Reactivity.

Chemical stability: Stable.

Conditions to prevent: Above 350°C, if oxygen is present, decomposition may occur.

Non-compatibility with other materials: Reaction with strong oxidative auxiliaries may occur. It is decomposed by strong acids or bases.

Decomposition: Dangerous decomposition materials: Carbon dioxide, carbon monoxide and organic bonds with low molecular weight

11. Toxicological Information.

It is not classified as dangerous.

12. Ecological information.

Biodegradability:

It is not biodegradable.

13. Disposal Considerations.

Recyclability:

It is recyclable.

14. Transportation Information.

Not classified as dangerous.

15. Regulatory Information.

With available information not classified as dangerous.

16. Other Information.

Application

Textile and non-textile applications either 100% or blend.

Textile grades of fiber are used for medical or hygienic applications.

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