

**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

PRODUCT NAME: FiberFlex 40D filament  
TRADE NAME AND SYNONYMS : Fiberlogy FiberFlex 40D filament  
CHEMICAL FAMILY : Thermoplastic Polyester Elastomer  
  
COMPANY NAME: FIBERLAB S.A.  
ADDRESS : Brzezie 387, 32-014 Brzezie, Poland  
TELEPHONE: +48 731 400 201  
EMAIL: [office@fiberlogy.com](mailto:office@fiberlogy.com)

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENT NAME: Butylene / Poly(alkylene ether) phthalate  
CAS NUMBER : 9086-55-9  
HAZARDOUS SUBSTANCE: None

**Notes:**

All ingredients are physically bounded in a thermoplastic polymer. These materials are not expected to create any respiration hazard when used, handled, and processed in ordinary condition. But in case that the polymer is grounded to a small size of powder respirable, good hygiene practices are required for preventing inhalation of both powders and dusts.

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**3. HAZARD IDENTIFICATION****HEALTH HAZARDS ACUTE & CHRONIC**

INGESTION: Low toxicity. Not a probable route of exposure.

SKIN: Molten polymer will produce thermal burns.

EYE: Mechanical irritation.

INHALATION: Polymer granules not respirable.

CHRONIC EFFECT: None known.

**SIGNS & SYMPTOMS OF OVEREXPOSURE**

INHALATION: In case of overheating fumes may be irritating to the eyes and upper respiratory organs and lungs.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None Known

THRESHOLD LIMIT VALUE: Not Established

#### 4. FIRST AID MEASURES

**INGESTION:** No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

**SKIN CONTACT:** The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Obtain medical treatment for thermal burn.

**EYE CONTACT:** In case of contact, immediately flush eyes with copious amount of water for at least 15 minutes. Call a physician.

**INHALATION:** No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary. If exposed to fumes from overheating or combustion, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, supply oxygen.

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#### 5. FIRE FIGHTING MEASURES

**FLASH POINT:** -384°C (Method : ASTM D1929) No fire and explosion hazard.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Combustible Hazardous gases / vapors produced in fire are carbon monoxide.

**EXTINGUISHING MEDIA:** Water, Foam, Dry Chemical, CO<sub>2</sub>

**SPECIAL FIRE FIGHTING INSTRUCTIONS:** Wear self-contained breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Small pieces of filament on floor may be slippery and cause falls

**ENVIRONMENTAL PRECAUTIONS:** Spilled pellets may cause soil and air pollution. Disposal should be carried in compliance with federal, state and local regulations regarding health, air and water pollution.

**CLEANING UP SPILLAGE:** Recover large spills for disposal. Carefully sweep up small spills and transfer to suitable container for disposal. Avoid creation of dusty atmosphere. Do not sweep or flush into sewers or water ways.

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#### 7. STORAGE AND HANDLING

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Store in cool and ventilated dry place. Keep containers tightly closed to prevent moisture absorption and contamination. Do not expose to temperature exceeding 40°C for a prolonged time. Protect from direct sunlight and all heat sources in order to avoid sintering.

**OTHER PRECAUTIONS:**

Avoid contamination of foods. Avoid inhalation of dust during the processing of the resin.

## 8. EXPOSURE CONTROL & PERSONAL PROTECTION

### ENGINEERING CONTROLS

VENTILATION: Local exhaust ventilation to draw fume, vapor and dust away from workers in both melt processing and cutting/grinding of polymer to prevent inhalation.

### PERSONAL PROTECTIVE EQUIPMENT

SKIN PROTECTION: Protective gloves, long sleeve cotton shirt and long pants when handling molten polymer.

EYE PROTECTION: Safety glasses.

RESPIRATORY PROTECTION: Not required for normal processing. If dusts are generated, wear approved dust respirator.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: filament

ODOR: Odorless

BOILING POINT: NA

MELTING POINT: 155°C to 222°C

SPECIFIC GRAVITY: 1.07 to 1.27 @ 25°C

VAPOR PRESSURE: Negligible

SOLUBILITY IN WATER: Insoluble

pH (in water ): neutral

% VOLATILES BY VOLUME: NA

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## 10. STABILITY AND REACTIVITY

STABILITY: Stable at ordinary conditions.

INCOMPATIBILITY WITH OTHER MATERIALS : Incompatible with oxidizing agents

CONDITION TO AVOID : Oxidizing (heating in air). Abnormally long processing time or high temperature can produce irritating and toxic fumes.

HAZARDOUS DECOMPOSITION PRODUCTS: Acrolein, Tetrahydrofuran, Acetaldehyde

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## 11. TOXICOLOGICAL INFORMATION

No exact toxicological data are available.

## 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION : Butylene / Poly(alkylene ether) phthalate

The product is not harmful to the environment. As this product is a 100% active material, no evaporation or air pollution during handling under normal conditions can occur.

### ENVIRONMENTAL FATE

Movement & Partitioning: No bioconcentration is expected because of high molecular weight (MW > 10,000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.

Degradation & Persistence: This water insoluble polymeric solid is expected to be essentially unreactive in the environment over a period of many years. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

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## 13. DISPOSAL CONSIDERATIONS

### WASTE & CONTAINER DISPOSAL METHOD

Unused polymer product and empty containers may be disposed under controlled incineration and in agreement with local and national legislation.

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## 14. TRANSPORT REGULATIONS

PROPER SHIPPING NAME: Not applicable.

HAZARDOUS CLASSIFICATION: Not DOT regulated.

IDENTIFICATION NUMBER : Not available

REPORTABLE QUANTITY: None

IMCO CLASS (International Travel) : Chemicals, N.O.S. (Not-regulated)

ADDITIONAL LABELING: None

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## 15. REGULATORY INFORMATION

This product contains no known toxic chemicals subject ed to the reporting requirements of section 313 of the Emergency Planning and Community Right -To-Know Act of 1986 and of 40 CFR 372.

These materials are in compliance with TSCA Inventory requirements for commercial purposes.

**16. OTHER INFORMATION**

## User responsibility/Disclaimer of Liability

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and local regulations remains as the responsibility of the user. This bulletin cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to develop appropriate work practice guidelines and employee instructional programs for your operation.

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The information is provided as a way of a guide to the use of our product and is correct to the best of our knowledge. However, neither Fiberlab S.A. nor its subsidiaries can offer any guarantee as to its accuracy or exhaustiveness. All chemicals may present unforeseen risks and should be used with caution. We can not guarantee that the risks referred to above are the only risks present. The final choice of the application of a product is thus the sole responsibility of the user.