

# Safety Data Sheet

## Tairyfil Carbon Fiber

This data sheet may be complied with OSHA'S Hazard Communication Standard, 29CFR1910.1200 Standard must be consulted for specific requirements.

### 1. Product and Manufacturer information

#### 1.1 Product information

|                         |   |
|-------------------------|---|
| Product:                | Carbon Fiber  |
| Product Name:           | TAIRYFIL  |
| Product Specifications: | TC-33<br>TC-35R<br>TC-35<br>TC-36P<br>TC-42S<br>TC-55<br>TC-780<br>TC-880 |
| Product Type:           | Continuous Filament<br>Chopped Fiber                                      |
| Product Package:        | By Bobbin and Carton  |

#### 1.2 Manufacturer Information

|                                |  |
|--------------------------------|--|
| Manufacturer Name:             | TAIRYLAN DIVISION,<br>FORMOSA PLASTICS CORPORATION |
| Manufacturer Address:          | 201, TUNG HWA N. ROAD, TAIPEI, TAIWAN, R.O.C.      |
| Manufacturer Telephone Number: | +886-(0)2-27122211                                 |
| Manufacturer Fax Number:       | +886-(0)2-27134818                                 |

### 2. Hazard Identification

#### 2.1 GHS classification of the substance or mixture

This product is outside the object for classification under according to CNS 6864 Z5071 (Labeling of chemicals based on GHS).

#### 2.2 GHS label elements

Not applicable.

#### 2.3 Other hazards which do not result in classification.

No information available.

#### 2.4 Major symptom and envisioned emergencies

No information available.

### 3. Composition/Information on Ingredients

|                |              |  |                |
|----------------|--------------|--|----------------|
| Chemical Name: | Carbon Fiber | Chemical Formula:                      | Non-Disclosure |
| Carbon:        | $\geq 94\%$  | CAS Number:                            | 7440-44-0      |
| Sizing:        | $\leq 2\%$   | Specific Gravity (H <sub>2</sub> O=1): | 1.75~1.85      |

### 4. Primary Route of Exposure

4.1 SKIN : Contacting this product without any protection may cause the splinters imbedded in the skin and makes the skin irritated.

**FIRST AID** : Wash the part of the skin which feels irritated with water and soap. Remove the imbedded fiber with tweezers or sterile needle if the splinter is visible. Get the medical attention if the skin turns red, pain, or swollen.

4.2 EYES : Exposing with the nuked eyes may cause irritated.

**FIRST AID** : Flush the eye with plenty of water immediately for 20 minutes at least. After washing, if the eye still can not stop winking or tearing, get the medical attention.

4.3 INHALATION : The long continuous filament is not supposed to be inhaled. The fragment of tiny filament might be spread into the air and inhaled by breathing without any protection, which might cause irritation.

**FIRST AID** : Move the victim to outdoor and provide fresh air. If the victim still has the breath difficulty, get the medical attention immediately.

4.4 INGESTION/SWALLOWED : This is not the normal route of exposure and NOT expected to happen in standard process. Mass ingestion for this product will cause the irritation of digestive system or respiratory system and hurt the gastrointestinal or respiratory tract.

**FIRST AID** : If the ingestion happens in an abundant amount of this product, DO NOT induce vomiting. Get the medical attention immediately.

4.5 CHRONIC EFFECTS/CARCINOGENICITY : There is no date of chronic effects or carcinogen reported at the present time. This product is not listed in NTP, IARC, or OSHA.

### 5. Flammable Properties

5.1 Flash Point: Not Applicable

5.2 Flammable Limits

LFL (Lower Flush Limit): Not Applicable

UFL (Upper Flush Limit): Not Applicable

5.3 Firefighting Instruction:

5.3.1 Extinguishing Media :

(1) Suitable extinguishing media

Water spray/Foam/Powder/Carbon dioxide (CO<sub>2</sub>)

Dry chemical powder, carbon dioxide or dry sand should be used for small fires.

(2) Unsuitable extinguishing media

Nothing in particular.

5.3.2 Special hazards arising from the product

Toxic fumes or gas formed during combustion (Carbon monoxide)

5.3.3 Specific fire-fighting measures

Protect surrounding equipment by spraying water from a safe distance.

5.3.4 Special protective actions for fire-fighters

Since gas such as carbon monoxide can generate for the combustion, the fire fighter wears a suitable protection tools and respirator etc.

6. Accidental release measures

6.1 Aquatic Toxicity: Unknown

6.2 Steps to be taken if material is released or spilled: Vacuum up and place in a waste disposal container to an approved landfill.

6.3 Neutralizing Chemicals: Not Applicable

7. Handling and storage

7.1 A cool and dry surrounding is ideal to preserve this product.

7.2 Wear the protective equipment and protective clothes before taking this product.

7.3 Wash hands with soap and water after handling.

8. Exposure controls and personal protection

8.1 Ventilation Requirements: Local exhaust for fiber dust only

8.2 Personal Protective Equipment:

Eye/Face Protection Safety: Goggles and Dust Mask

Skin Protection: Protective clothing (Rubber Gloves) which can cover full body

Respiratory Protection: Dust Masks

9. Physical and chemical properties

|                                   |           |                       |           |
|-----------------------------------|-----------|-----------------------|-----------|
| <b>Appearance</b>                 | Filament  | <b>Odor</b>           | Odorless  |
| <b>Density (g/cm<sup>3</sup>)</b> | About 1.8 | <b>Color</b>          | Black     |
| <b>Boiling point</b>              | N/A       | <b>Vapor Pressure</b> | N/A       |
| <b>Melting point</b>              | N/A       | <b>Solubility (%)</b> |           |
| <b>Vapor Density</b>              | N/A       | In water              | Insoluble |
| <b>Volatility</b>                 | N/A       | In otehrs             | N/A       |

10. Stability and reactivity

- 10.1 Chemical stability: Stable
- 10.2 Conditions to Avoid: Strong oxidizing agents
- 10.3 Incompatibilities: None
- 10.4 Hazardous Polymerization: Will not occur
- 10.5 Hazardous Decomposition Product: None

11. Toxicological Information

- 11.1 Irritation: Combustion gas irritates eye and skin
- 11.2 Toxicity: Unknown

12. Ecological Information

- 12.1 Biodegradability: Not biodegradable
- 12.2 Bioaccumulation: Unknown
- 12.3 Aqua toxicity: The composition, which cause the toxic to aquatic life, is contained.

13. Disposal considerations

- 13.1 Bury as the burial waste in landfill.
- 13.1 ATTENTION: DO NOT incinerate this product because the airborne filament may cause electrical malfunctions.
- 13.2 Steps to be taken if material is released or spilled vacuum up and place in a waste disposal container to an approved landfill.

14. Transportation information

Avoid water and careless handling to prevent damage to the container

15. Regulation information

TSCA (US) NO: CARBON FIBER 7440-44-0  
EINECS NO: N/A  
WHMIS (Canada): N/A  
OSHA: N/A  
SARA TITLE III Sec.313 Toxic Chemicals: None

16. Other Information/References:

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