SECTION 1
IDENTIFICATION

Product Information

Product: Carbon Fiber
Product Name: TAIRYFIL
Product Specifications: TC–33
TC–35R
TC–35
TC–36P
TC–42S
TC–55
Product Type: Continuous Filament
Chopped Fiber
Product Package: By Bobbin and Carton

Manufacturer Information

Manufacturer Name: TAIRYLAN DIVISION,
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
Data Update: April 20, 2016
SECTION 2
COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Composition</th>
<th>Chemical Formula</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Fiber</td>
<td>≥ 94%</td>
<td>Carbon</td>
<td>7440-44-0</td>
</tr>
<tr>
<td>Sizing</td>
<td>≤ 2%</td>
<td>None Disclosure</td>
<td>Registered</td>
</tr>
</tbody>
</table>

SECTION 3
PHYSICAL & CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (H₂O=1)</td>
<td>1.75–1.85</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (AIR=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>INSOLUBLE</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>BLACK-ODORLESS</td>
</tr>
</tbody>
</table>

SECTION 4
HAZARDS IDENTIFICATION

2.1 Primary Route of Exposure
  2.1.1 Skin Contact : Fiber dust may cause irritation, itchiness or sometimes allergic dermatitis.
  2.1.2 Eye Contact : Fiber or Fiber Dust may cause irritation or injury from scratching.
  2.1.3 Inhalation : Dust may cause irritation.
  2.1.4 Ingestion : Unknown

2.2 Chronic Toxicity/Carcinogenicity : Not Listed

2.3 Medical Conditions Aggravated by Exposure : Not Applicable
SECTION 5
FIRST AID MEASURES

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.

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.

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. 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.

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.
8.1 Ventilation Requirements
Local exhaust for fiber dust only

8.2 Personal Protective Equipments
Eye/Face Protection Safety : Goggles and Dust Mask
Skin Protection : Protective clothing (Rubber Gloves) which can cover full body
Respiratory Protection : Dust Masks

5.1 Flammable Properties
5.1.1 Flash Point : Not Applicable
5.1.2 Flammable Limits
LFL (Lower Flush Limit) : Not Applicable
UFL (Upper Flush Limit) : Not Applicable

5.2 Firefighting Instruction : Not Applicable

Chemical Stability : Stable
Conditions to Avoid : Strong oxidizing agents
Incompatibilities : None
Hazardous Polymerization : Will not occur
Hazardous Decomposition Product : None
SECTION 9
TOXICOLOGICAL INFORMATION

Irritation : Combustion gas irritates eye and skin
Toxicity : Unknown

SECTION 10
ECOLOGICAL INFORMATION

Biodegradability : Not biodegradable
Bioaccumulation : Unknown
Aqua Toxicity : Unknown

SECTION 11
HANDLING AND STORAGE

1. A cool and dry surrounding is ideal to preserve this product.
2. Wear the protective equipments and protective clothes before taking this product.
3. Wash hands with soap and water after handling.

SECTION 12
DISPOSAL INFORMATION

1. Bury as the burial waste in landfill
2. ATTANTION: DO NOT incinerate this product because the airborne filament may cause electrical malfunctions.
SECTION 13
TRANSPORTATION INFORMATION

This product is not the hazardous goods under DOT, IMO, ICAO, IATA, or UN shipping regulations.

SECTION 14
ACCIDENTAL RELEASE MEASURES

14.1 Aquatic Toxicity : Unknown
14.2 Steps to be Taken if Material is Released or Spilled Vacuum up and place in a waste disposal container to an approved landfill.
14.3 Neutralizing Chemicals Not Applicable

SECTION 15
REGULATORY INFORMATION

This product is not classified as toxic chemical or hazardous material. No special warning label is required.
TSCA (US) NO : CARBON FIBER 7440–44–0
EINECS NO : N/A
WHMIS (Canada) : N/A
CAS : 7440–44–0
OSHA : N/A
SARA TITLE III Sec.313 Toxic Chemicals : None
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