1. Identification of the substance/preparation and the company/undertaking

Product name

Celstran®

The following SDS applies to products described by combinations of the following trade name, product grade and color code listed below.

Product Grade(s):
CFR-TP HDPE-GF70

Color Code:
See Section 16 for list of Color Codes

Manufacturer or supplier's details

Celanese (Shanghai) International Trading Co., Ltd.
Room 239, Xinmao Building
South Taizhong Road
Waigaoqiao Free Trade Zone
Shanghai, China

Celanese Pte Ltd
138 Robinson Road
#17-00
Singapore (068906)

Product Information
info-engineeredmaterials-asia@celanese.com

Emergency telephone number
+(65) 62656917 (Operations Room direct dial)
or fax request to +(65) 62664696 (Facsimile to Operations Room)
or email to posh.er@paccoffshore.com.sg

In China Emergency Number: 86-532-83889090 (NRCC)

Identified uses
Plastic processing industry.

2. Hazards identification

Statements of Hazard
Not a dangerous product according to GHS

3. Composition/Information on ingredients
3. Composition/Information on ingredients

Chemical characterization: Long-fibre-reinforced thermoplastics / LFT CAS-RN. basic polymer: 9002-88-4 glass fiber reinforced

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Percent %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene, acrylonitrile, butadiene polymer</td>
<td>9003-56-9</td>
<td></td>
</tr>
<tr>
<td>Glass oxide; Fiberglass continuous filament</td>
<td>85997-17-3</td>
<td>5-80</td>
</tr>
</tbody>
</table>

4. First aid measures

Skin
Cool skin rapidly with cold water after contact with molten polymer. Immediate medical attention is required. Do not peel solidified product off the skin.

Eyes
Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

Inhalation
Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

Ingestion
If swallowed, do not induce vomiting - seek medical advice.

Notes to physician
This product is essentially inert and nontoxic. However, if it is heated at too high a temperature or if it burns, gases may be released. Based on the amounts likely to be released, carbon monoxide and the nitrogen oxides are the most likely to cause clinically significant toxicity. Patients who have been exposed to off-gases may need to have their carboxyhemoglobin levels and arterial blood gases checked. In the event that the carboxyhemoglobin levels are normal in an acidotic patient, consider cyanide toxicity. If the exposure occurred in an enclosed space, asphyxia (carbon dioxide replacing oxygen) is a possibility. The nitrogen oxides are severe respiratory tract irritants. If patients may have inhaled high concentrations of irritating fumes, monitoring for delayed onset pulmonary edema should be considered.

5. Fire-fighting measures

NFPA:
Health: 0  Flammability: 0  Instability: 0

Suitable extinguishing media
Water, Foam, Dry powder

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases
Carbon monoxide
Carbon dioxide (CO2)
Nitrogen oxides (NOx)

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit.

Other Information
Keep people away from and upwind of fire
6. Accidental release measures

**Personal precautions**
Do not breathe dust. Avoid dust formation.

**Environmental precautions**
No special environmental precautions required.

**Methods for cleaning up**
Use mechanical handling equipment.

7. Handling and storage

**Advice on safe handling**
Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing. Do not handle hot or molten material without appropriate protective equipment. Do not exceed recommended process temperatures to minimize release of decomposition products. Handle in accordance with good industrial hygiene and safety practice.

**Material storage**
Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

8. Exposure controls / personal protection

**ACGIH Exposure Limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass oxide; Fiberglass continuous filament</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>1 fibers / cm³</td>
</tr>
</tbody>
</table>

**Exposure controls**

**Engineering measures**
General: May not be adequate as the sole means to control employee exposure. Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors.

**Personal protective equipment**

**General advice**
Do not handle hot or molten material without appropriate protective equipment.

**Hygiene measures**
Do not inhale dust particles, during processing glass or glass dust particles are set free and cause irritation to the respiratory passage. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes.

**Skin protection**
protective suit

**Hand protection**

<table>
<thead>
<tr>
<th>Suitable material</th>
<th>protective gloves</th>
<th>Butyl-rubber</th>
</tr>
</thead>
</table>

3 of 5
9. Physical and chemical properties

**Appearance**

**Form** tape

**Odor** slight, specific

**Flash point** Not applicable

**Density** 1.05 - 1.60 g/ml @ 20°C

**Water solubility** insoluble

**VOC Content(%)** None

10. Stability and reactivity

**Chemical stability**

Stable under normal conditions

**Conditions to avoid**

Avoid prolonged heating at or above the recommended processing temperature.

**Incompatible Materials**

None known

**Hazardous Combustion or Decomposition Products:**

styrene, acrylonitrile, aldehydes, butadiene, acetophenone, ethylbenzene, cumene, hydrogen bromide, hydrogen cyanide, phenol, brominated phenol

11. Toxicological information

Toxicological data are not available. When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

12. Ecological Information

Ecological data are determined by analogy. According to experience, the material has no harmful effect on the environment.

13. Disposal considerations

**Product information**

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.
Uncleaned empty packaging
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

14. Transport information

US Department of Transportation Not regulated
ADR/RID Not regulated
ADN Not regulated
ICAO/IATA Not restricted
IMDG Not regulated

15. Regulatory information

INTERNATIONAL REGULATIONS
This preparation is not classified as dangerous according to Chinese legislation
This substance is not classified as dangerous according to Japanese legislation

16. Other information

HMIS: Health: 0 Flammability: 0 Physical Hazard: 0

Color Code(s): NATURAL

Prepared By
Product Stewardship Department
Celanese

Other Information:
Observe national and local legal requirements. Except as otherwise noted, all of the trademarks referenced herein are owned by Ticona or its affiliates.

Changes against the previous version are marked by ***

Sources of key data used to compile the datasheet
Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable.