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):
PBT-SF10-01, PBT-SF50-01

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
Polybutylene Terephthalate / PBT; Basic CAS-RN: 30965-26-5 and 26062-94-2

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 is burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal, asphyxia (carbon dioxide replacing oxygen) is a possibility. As with any fire, irritant gases may have formed. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema.

5. Fire-fighting measures

NFPA:
- Health: 1
- 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)

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**
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Avoid dust formation.

**Incompatible products**
strong bases

**Protection - fire and explosion:**
Keep away from sources of ignition - No smoking. Potential dust explosion hazard.

**Material storage**
Keep in a dry, cool place.

**Incompatible products**
strong bases

**Technical measures/Storage conditions**
No special storage conditions required.

**8. Exposure controls / personal protection**

**ACGIH Exposure Limits**
No exposure limits established.

<table>
<thead>
<tr>
<th>Components</th>
<th>TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran</td>
<td>50 PPM</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrahydrofuran</td>
<td>100 PPM</td>
</tr>
</tbody>
</table>

**Exposure controls**

**Personal protective equipment**

**Hygiene measures**
When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday.

**9. Physical and chemical properties**

<table>
<thead>
<tr>
<th>Appearance</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>pellets</td>
</tr>
<tr>
<td>Odor</td>
<td>slight, specific</td>
</tr>
</tbody>
</table>
9. Physical and chemical properties

Flash point: Not applicable
Ignition temperature: >420°C
Method: ASTM D 1929
Density: approx 1.38 - 1.55 g/ml @ 20°C
Bulk density: approx 600 - 900 kg/m³ @ 20°C
Water solubility: insoluble
VOC Content(%): None

10. Stability and reactivity

Chemical stability
Stable under normal conditions

Conditions to avoid
Flame. Avoid temperatures above 271 °C / 520 °F.

Incompatible Materials
strong bases

Hazardous Combustion or Decomposition Products:
Aldehydes, ketones, esters, acids, alcohols, butadiene, tetrahydrofuran, toluene, benzoic acid, terephthalic acid

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

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
SAFETY DATA SHEET

Product name: Celstran®
MSDS number: 870310671
Revision Number: 0

Revision Date: Jan.28.2014
Issuing date: Jan.28.2014

14. Transport information

ICAO/IATA: Not restricted
IMDG: Not regulated

15. Regulatory information

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

16. Other information

HMIS: Health: 1 Flammability: 0 Physical Hazard: 0

Color code(s)
AF3005

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.

Further information
This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality.