This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DISP 30
Tradename/Synonym : TE3970
MSDS Number : 130000101721
Manufacturer : DuPont
1007 Market Street
Wilmington, DE 19898

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)
Transport Emergency : CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects
Before use, Read the "Fluoropolymers Safe Handling Guide".

Skin
Polytetrafluoroethylene : Dust may cause: Discomfort, itching, redness, or swelling.

Eyes
Polytetrafluoroethylene : Dust may cause: tearing, Redness, Discomfort.
Polyoxyethylene alkylether : Causes eye irritation.

Inhalation
Polytetrafluoroethylene: Dust may cause: Respiratory tract irritation
The thermal decomposition vapours of fluorinated polymers may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco. Symptoms usually appear after several hours and resolve within 1 to 2 days. Repeated episodes of polymer fume fever may result in persistent lung effects. Polymer may extensively decompose if severely overheated or burned. Inhalation of fluorinated decomposition products may cause lung irritation and pulmonary oedema. Symptoms may be delayed for several hours. Symptoms may be severe or life-threatening.

Carcinogenicity
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polytetrafluoroethylene</td>
<td>9002-84-0</td>
<td>55 - 65 %</td>
</tr>
<tr>
<td>Polyoxyethylene alkylether</td>
<td>60828-78-6</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>35 - 40 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

Skin contact: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water.
Eye contact: Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention. Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

Ingestion: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention.

General advice: Never give anything by mouth to an unconscious person. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties
Flash point: does not flash

Ignition temperature: 530 - 550 °C (986 - 1,022 °F)

Autoignition temperature: 520 - 560 °C (968 - 1,040 °F)

Fire and Explosion Hazard: Difficult to ignite, and flame goes out when initiating source is removed. Hazardous thermal decomposition products:
- Hydrogen fluoride
- Toxic or highly toxic fluorides
- Carbon monoxide

Suitable extinguishing media: Water spray, Carbon dioxide (CO2), Foam, Dry chemical

Firefighting Instructions: Wear self-contained breathing apparatus and protective suit. Wear neoprene gloves during cleaning up work after a fire. Protect from hydrogen fluoride fumes which react with water to form hydrofluoric acid.
SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Refer to protective measures listed in sections 7 and 8. Material can create slippery conditions.

Spill Cleanup : Clean contaminated floors and objects thoroughly while observing environmental regulations. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Accidental Release Measures : Try to prevent the material from entering drains or water courses.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist. General precaution for all plastics and elastomers: Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated.
Avoid contact with skin, eyes and clothing. Do not contaminate tobacco products. Wash hands before breaks and immediately after handling the product. Do not breathe vapours or spray mist.

Handling (Physical Aspects) : Provide appropriate exhaust ventilation at machinery.

Storage : Keep in a dry, cool place.
No special restrictions on storage with other products. Keep away from tobacco products.
Do not freeze.

Storage temperature : 10 - 27 °C (50 - 81 °F)
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Local exhaust ventilation should be employed to minimize airborne contamination.

Personal protective equipment:

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Additional protection: Impervious gloves, When handling hot material, use heat resistant gloves.

Eye protection: Safety glasses with side-shields Wear coverall chemical splash goggles and face shield when the possibility exists for eye and face contact due to splashing or spraying of material.

Skin and body protection: Wear as appropriate:
- Apron
- Boots
- Chemical-resistant gloves

Exposure Guidelines

Exposure Limit Values

<table>
<thead>
<tr>
<th>Substance</th>
<th>TLV (ACGIH)</th>
<th>PEL (OSHA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust (inhalable and respirable fraction)</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>TWA Inhalable particles.</td>
<td>3 mg/m³</td>
<td>TWA Respirable particles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>TWA Respirable fraction.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remarks: All inert or nuisance dusts, whether mineral, inorganic, or organic, not listed specifically by substance name are covered by the Particulates Not Otherwise Regulated (PNOR) limit which is the same as the inert or nuisance dust limit of Table Z-3.

15 mg/m³ TWA Total dust.
Polytetrafluoroethylene

<table>
<thead>
<tr>
<th>AEL *</th>
<th>(DUPONT)</th>
<th>10 mg/m3</th>
<th>8 hr. TWA</th>
<th>Total dust.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEL *</td>
<td>(DUPONT)</td>
<td>5 mg/m3</td>
<td>8 hr. TWA</td>
<td>Respirable dust.</td>
</tr>
</tbody>
</table>

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form**: dispersion
- **Color**: milky
- **Odor**: slight, ammoniacal
- **pH**: 9 - 11
- **Melting point/range**: 327 - 342 °C (621 - 648 °F)
- **Boiling point/boiling range**: 100 °C (212 °F)
- **% Volatile**: 35 - 40 %
- **Density**: 1.4 - 1.7 g/cm3
- **Water solubility**: Solids are insoluble., Dispersion may be diluted.
- **Limiting oxygen index**: > 95 %

### SECTION 10. STABILITY AND REACTIVITY

- **Stability**: Stable under recommended storage conditions.
- **Conditions to avoid**: Avoid heating for prolonged periods above the recommended upper processing limit.
- **Incompatibility**: Alkali metals Strong oxidizing agents, Halogenated compounds
- **Hazardous decomposition**: Hazardous thermal decomposition products:, Fluorinated hydrocarbons,
SECTION 11. TOXICOLOGICAL INFORMATION

**Polytetrafluoroethylene**

- **Skin irritation**: May cause skin irritation in susceptible persons.
- **Eye irritation**: Mild eye irritation
- **Oral LD50**: > 11,280 mg/kg, rat
- **Skin sensitization**: Patch test on human volunteers did not demonstrate sensitization properties, human
- **Repeated dose toxicity**: Oral - feed rat
  - No toxicologically significant effects were found.
- **Further information**: The substance is a polymer and is not expected to produce toxic effects.

**Polyoxyethylene alkylether**

- **Dermal LD50**: 8,684 mg/kg, rabbit
- **Oral LD50**: 7,639 mg/kg, rat
- **Repeated dose toxicity**: Oral - feed rat
  - Reduced body weight gain, Organ weight changes
- **Further information**: The substance is a polymer and is not expected to produce toxic effects.

SECTION 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity**

**Polytetrafluoroethylene**

- The substance is a polymer and is not expected to produce toxic effects.
Polyoxyethylene alkylether

96 h LC50 : Pimephales promelas (fathead minnow) 103 mg/l

48 h EC50 : Daphnia magna (Water flea) 164.9 mg/l

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Preferred option for disposal is to separate solids from liquid by precipitation and decanting or filtering. Dispose of dry solids in a landfill that is permitted, licensed or registered by a state to manage industrial solid waste. Discharge liquid filtrate to a wastewater treatment system. Incinerate only if incinerator is capable of scrubbing out hydrogen fluoride and other acidic combustion products.

Environmental Hazards : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

TSCA Status : On the inventory, or in compliance with the inventory

SARA 313 Regulated Chemical(s) : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65 : WARNING! This product contains a chemical known to the State of California to cause cancer. Tetrafluoroethylene
PA Right to Know
Regulated Chemical(s): Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Polytetrafluoroethylene

SECTION 16. OTHER INFORMATION

Restrictions for use: Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications H-50103-3 and DuPont CAUTION Regarding Medical Applications H-50102-3.

Before use also read the following bulletin(s):
Fluoropolymer Safe Handling Guide published by the Society of the Plastics Industry.
The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.
For further information contact the local DuPont office or DuPont's nominated distributors.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Significant change from previous version is denoted with a double bar.