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: Tefzel® ETFE FLUOROPOLYMERS
Product Grade/Type: 280, 210, 200, 207
MSDS Number: 150000000915
Product Use: Plastic material for further processing
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

Skin
Tetrafluoroethylene/ethylene copolymer: Dust may cause: Discomfort, itching, redness, or swelling.

Eyes
Tetrafluoroethylene/ethylene copolymer: Dust may cause: tearing, Redness, Discomfort.

Inhalation

Print Date: 7 - 8 - 2011
Tetrafluoroethylene/ethylene copolymer: 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>Tetrafluoroethylene/ethylene copolymer</td>
<td>68258-85-5</td>
<td>100 %</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

Skin contact: No hazards which require special first aid measures. Wash off with soap and water. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Consult a physician.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Get medical attention immediately.

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Consult a physician.
Ingestion : Not a probable route of exposure. However, in case of accidental ingestion, call a physician.

General advice : Never give anything by mouth to an unconscious person. No hazards which require special first aid measures.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties

Flash point : not applicable

Autoignition temperature : 470 °C (878 °F)

Ignition temperature : 510 - 515 °C (950 - 959 °F)

Lower explosion limit : not applicable

Upper explosion limit : not applicable

Fire and Explosion Hazard : Hazardous decomposition products formed under fire conditions. acid fluorides Fluorinated compounds Hydrogen fluoride Carbon monoxide

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

Firefighting Instructions : In the event of fire, wear self-contained breathing apparatus. Wear suitable protective equipment. Wear neoprene gloves during cleaning up work after a fire.

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) : Ventilate the area. Refer to protective measures listed in sections 7 and 8. Material can create slippery conditions.
Spill Cleanup: Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations.

Accidental Release Measures: No special environmental precautions required.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel): For personal protection see section 8. Protect from contamination. When opening containers, avoid breathing vapours that may be emanating. Avoid breathing dust. Avoid contamination of cigarettes or tobacco with dust from this material. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. In case of insufficient ventilation, wear suitable respiratory equipment. Do not use a torch to clean this material from equipment without local exhaust ventilation and respirator. Wash hands and face before breaks and immediately after handling the product. Do not contaminate tobacco products.

Handling (Physical Aspects): Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

Storage: Keep container tightly closed in a dry and well-ventilated place. Protect from contamination. Stable under recommended storage conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Ensure adequate ventilation, especially in confined areas. Good general ventilation should be provided to keep dust concentrations below the exposure limits. Local exhaust ventilation should be employed to minimize airborne contamination.

Personal protective equipment

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Eye protection: Safety glasses with side-shields
Skin and body protection:
If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.
Regular cleaning of equipment, work area and clothing.

Exposure Guidelines

Exposure Limit Values

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: pellets
Color: off-white, translucent
Odor: none
Melting point/range: 255 - 280 °C (491 - 536 °F)
% Volatile: 0 %
Density: 1.7 g/cm³
Water solubility: insoluble
Limiting oxygen index: 30 % ASTM D 2863

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.
Conditions to avoid: To avoid thermal decomposition, do not overheat. Abnormally long
processing time or high temperatures can produce irritating and toxic fumes. Stable under normal conditions.

Incompatibility: Powdered metals, Finely divided aluminium, potent oxidizers like fluorine (F2), and, related compounds

Hazardous decomposition products: Hazardous thermal decomposition products: Hydrogen fluoride, Carbonyl fluoride, acid fluorides

Hazardous reactions: During drying, cleaning and moulding, small amounts of hazardous gases and/or particulate matter may be released. These may irritate eyes, nose and throat. Large molten masses may give off hazardous gases.

SECTION 11. TOXICOLOGICAL INFORMATION

Tetrafluoroethylene/ethylene copolymer

Oral ALD: > 5,000 mg/kg, rat
Inhalation 4 h LC50: 7.3 mg/l, rat

Skin irritation: slight irritation, human
Skin sensitization: Patch test on human volunteers did not demonstrate sensitization properties., human

Further information: The substance is a polymer and is not expected to produce toxic effects.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity
Tetrafluoroethylene/ethylene copolymer: The substance is a polymer and is not expected to produce toxic effects.

Additional ecological information: This product has no known eco-toxicological effects.
SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : Like most thermoplastic plastics the product can be recycled. If recycling is not practicable, dispose of in compliance with local regulations. Incinerate only in incinerators capable of scrubbing out 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. Tetrfluoroethylene

SECTION 16. OTHER INFORMATION

NFPA

Health : 2

Flammability : 1

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Reactivity/Physical hazard : 0

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.

DuPont™ Tefzel® is a Registered Trademark of E.I. duPont de Nemours and Company. The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.

Before use also read the following bulletin(s):
Fluoropolymer Safe Handling Guide published by the Society of the Plastics Industry.

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.