SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Fomblin UT-18 Grease
Synonyms: Mixture
Chemical Family: Fluorocarbons, fluoropolymers
Manufacturer Name: Solvay Solexis, Inc.
Address: 10 Leonards Lane
Thornofare, NJ 08086
Emergency Telephone: 800-424-9300 (CHEMTREC, 24 hours)
856-853-8119
Business Phone: 856-853-8119
Revision Date: May 19, 2005

Chemical Name: Mixture of Propene, 1,1,2,3,3,3-hexafluoro, oxidized, polymerized, and polytetrafluoroethylene
Emergency Overview: White grease. Thermal decomposition will generate hydrogen fluoride (HF), which is corrosive.
NFPA Ratings (Scale of 0–4)
Product Codes: UT-18

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propene, 1,1,2,3,3,3-hexafluoro, oxidized, polymerized</td>
<td>69991–67–9</td>
<td>Approximate: Proprietary by Weight</td>
</tr>
<tr>
<td>EC Index Number:</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Polytetrafluoroethylene</td>
<td>9002–84–0</td>
<td>Approximate: Proprietary by Weight</td>
</tr>
<tr>
<td>EC Index Number:</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview: Thermal decomposition will generate hydrogen fluoride (HF), which is corrosive.

Physical State: Grease.

Color: White

Applies to All Ingredients:

Potential Health Effects:

Eye Contact: Eye contact may cause slight irritation.

Skin Contact: Skin contact may cause slight irritation.

Inhalation: Inhalation of vapors or mists may cause irritation of the mucous membranes and respiratory tract.

Ingestion: Not an expected exposure route. Ingestion may cause nausea and vomiting.

SECTION 4: FIRST AID MEASURES

Eye Contact: Flush eyes for 15 minutes with copious amounts of water, retracting eyelids often. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes.

Inhalation: If symptoms of irritation or discomfort are experienced, or person is overcome by exposure, remove to fresh air. Give oxygen if breathing is difficult or artificial respiration if person is not breathing.

Ingestion: If conscious, drink three to four 8 ounce glasses of water or milk. Call a physician. If unconscious, immediately take affected person to a hospital. Do not give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Point: Not Applicable

Flammable or Explosive Limit: Not Applicable

Lower Flammable or Explosive Limit: Not Applicable

Auto Ignition Temperature: Not Applicable

Extinguishing Media: Water (spray or fog), foam, dry chemical or carbon dioxide (CO2).

Fire Fighting Instructions: Use self contained breathing apparatus (SCBA) and skin protection for acid gas exposure. Do not enter fire area without proper protection. Fight fire from safe distance. If possible, air monitoring should be performed.

Unusual Fire Hazards: Fluoropolymers will degrade upon prolonged heating or in a fire, liberating hydrogen fluoride (HF) and carbonyl fluoride (COF2). This gas is toxic if inhaled or it comes into contact with moist skin. HF has an ACGIH PEL TLV (8hr TWA) of 0.5 ppm and a ceiling limit of 2 ppm (1.7 mg/m3). COF2 has an ACGIH TLV of 2 ppm (5.4 mg/m3) and an OSHA PEL TWA of 2 ppm (5 mg/m3).

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures: Releases: In case of a release or spill, absorb material onto vermiculite or similar inert absorbent. Use Perfluorosolv(TM) PFS-1 Solvent to clean up any residual fluid. Place spilled material into covered container for disposal. Dispose of according to applicable local, state and federal regulations. Extinguish all ignition sources and evacuate the area. Exercise caution; spill area may be slippery.

SECTION 7: HANDLING and STORAGE

Handling: Wash hands after use and before handling food or applying cosmetics. Do not use tobacco products in the immediate area. Keep containers closed. Keep away from heat, sparks and flames.

Storage: Do not store near combustible materials.
SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Vent vapors or mists generated by processing away from operating personnel. Local exhaust ventilation at a rate of 50 feet per minute.

Skin Protection Description: Rubber or latex gloves recommended but not necessary.

Eye/Face Protection: ANSI Z87.1 approved safety glasses with side shields or equivalent.

Respiratory Protection: No occupational exposure standards have been developed for this material. In situations where exposure to vapors or mists is likely, NIOSH/MSHA approved respirators equipped with acid gas cartridges are recommended. Respirator use limitations made by NIOSH/MSHA or the manufacturer must be observed. Respiratory protection programs must be in accordance with requirements set forth in 29 CFR 1910.134.

Exposure Limits: ACGIH Threshold Limit Value (8 hr. time weighted average): None established
OSHA Permissible Exposure Limit (8 hr. time weighted average): None established

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Physical State/Appearance: Grease
Color: White
Odor: Odorless
Vapor Pressure: Not available
Vapor Density: (Air=1): Not available
Boiling Point: Not available
Melting Point: Not available
Solubility: In Water: Insoluble
Specific Gravity: 1.7 – 1.9
Percent Volatile: By Volume: 0

SECTION 10: STABILITY and REACTIVITY

Chemical Stability: This material is stable.
Conditions to Avoid: Heat, sparks, flames, and other ignition sources; avoid heating above 290 deg C/554 deg F.
Incompatibilities with Other Materials: Materials to Avoid: Alkali metals and halogenated compounds. Strong or non-aqueous alkali or Lewis acids above 100 deg C/212 deg F.
Reactivity: This material is not reactive.
Hazardous Decomposition Products: Thermal decomposition of this product will generate hydrogen fluoride (HF), which is corrosive, causing burns on contact with skin and other tissue.

SECTION 11: TOXICOLOGICAL INFORMATION

Propene, 1,1,2,3,3,3-hexafluoro, oxidized, polymerized:

Acute Health Effects: Rat intraperitoneal LD50: Greater than 25 g/kg
Skin Effects: Rat dermal LD50: Greater than 2 g/kg
Ingestion Effects: Rat oral LD50: Greater than 25.65 g/kg
Sensitization: Guinea pig sensitization: Not a sensitizer
Irritation: Rabbit skin irritation: Not irritating
Rabbit eye irritation: Not irritating

SECTION 12: ECOLOGICAL INFORMATION

No ecological information is available for this material.
**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal:

Material, as supplied, is not a hazardous waste. Landfill according to current federal, state and local regulations, or incinerate in a high-temperature incinerator designed to burn fluorine-containing materials. Processing, use or contamination may make this information inaccurate or incomplete.

**SECTION 14: TRANSPORT INFORMATION**

DOT Hazard Class:

Not regulated by DOT.

**SECTION 15: REGULATORY INFORMATION**

**Applies to All Ingredients:**

TSCA 8(b): Inventory Status:

All components of this product are listed on the Toxic Substances Control Act (TSCA) Section 8(b) Chemical Inventory.

Section 302:

Not listed

Section 312 Hazard Category:

SARA 311/312:

Acute: No
Chronic: No
Fire: No
Reactive: No
Pressure: No

Section 313 Toxic Release Form:

Not listed

OSHA 29 CFR 1200:

This product is not a "hazardous substance" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Canada WHMIS:

All components of this product are listed on the Canadian Environmental Protection Act (CEPA) provisional domestic substances list (DSL).

This product is not a "controlled product" as defined by the Canadian Workplace Hazardous Materials Information System (WHMIS).

**Polytetrafluoroethylene:**

State:

Polytetrafluoroethylene is listed on the Pennsylvania Hazardous Substances List.

**SECTION 16: ADDITIONAL INFORMATION**

NFPA:

Health: 1
Fire Hazard: 0
Reactivity: 0
MSDS Revision Date: May 19, 2005

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