

Fomblin RT-15 Grease

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 856-853-8119

Section 1 - Chemical product and Company information

Date Prepared: December 30, 2002
 Product Name: Fomblin RT-15 Grease
 Chemical Name: Mixture of Propene, 1,1,2,3,3,3-hexafluoro, oxidized, polymerized, and polytetrafluoroethylene
 Chemical Family Fluorocarbons, fluoropolymers
 Synonyms: Mixture
 Emergency Telephone: 800-424-9300 (CHEMTREC, 24 hours)
 856-853-8119

Emergency Overview:

White grease. Thermal decomposition will generate hydrogen fluoride (HF), which is corrosive.

Section 2 - Compositional information

Name:	CAS#	Approximate Weight (% wt.):
Propene, 1,1,2,3,3,3-hexa-fluoro, oxidized, polymerized	69991-67-9	Proprietary
Polytetrafluoroethylene	9002-84-0	Proprietary

Section 3 - Potential Health Effects

Effects of Overexposure:

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

Flash Point: Not Applicable

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

Autoignition Temperature: Not Applicable

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

Unusual Fire Hazards:

Fluoropolymers will degrade upon prolonged heating or in a fire, liberating carbonyl fluoride and hydrogen fluoride (HF). This gas is toxic if inhaled or it comes into contact with moist skin. HF has an ACGIH TLV ceiling limit of 3 ppm (2.6 mg/m³) and an OSHA PEL TWA of 3 ppm. Carbonyl fluoride has an ACGIH TLV TWA and OSHA PEL TWA of 2 ppm (5 mg/m³).

Fire Fighting Procedures:

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.

Section 6 - Accidental Release 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

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. Do not store near combustible materials.

Section 8 - Exposure Controls/Personal Protection

ACGIH Threshold Limit Value (8 hr. time weighted average)

None established

OSHA Permissible Exposure Limit (8 hr. time weighted average)

None established

Engineering Controls:

Ventilation Requirements:

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

Personal Protective Equipment:

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.

Eye/Face Protection:

ANSI Z87.1 approved safety glasses with side shields or equivalent.

Skin Protection:

Rubber or latex gloves recommended but not necessary.

Section 9 - Physical and Chemical Properties

Appearance: Grease

Color: White

Odor: Odorless

Vapor Pressure: Not available

Vapor Density (Air=1): Not available

Boiling Point: Not available

Melting Point: Not available

Specific Gravity: 1.7 - 1.9

Solubility in Water: Insoluble

Molecular Formula: Mixture of $\text{CF}_3\text{-(O-CF}_2\text{-CF}_2\text{)}_n\text{-(O-CF}_2\text{)}_m\text{-O-CF}_3$ and $(\text{C}_2\text{F}_4)_x$

Molecular Weight: Not applicable

% Volatile by Volume: 0

Section 10 - Stability and Reactivity

Stability:

This material is stable.

Reactivity:

This material is not reactive.

Conditions to Avoid:

Heat, sparks, flames, and other ignition sources; avoid heating above 290 C/554 F.

Incompatibility/Materials to Avoid:

Alkali metals and halogenated compounds. Strong or non-aqueous alkali or Lewis acids above 100 C/212 F.

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

Data listed are for propene, 1,1,2,3,3,3-hexafluoro, oxidized, polymerized:

Rat oral LD50: greater than 25.65 g/kg
Rat intraperitoneal LD50: greater than 25 g/kg
Rat dermal LD50: greater than 2 g/kg
Rabbit skin irritation: not irritating
Rabbit eye irritation: not irritating
Guinea pig sensitization: not a sensitizer

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 - Transportation information

Shipping Class: Not regulated by DOT.

Section 15 - Regulatory information

All components of this product are listed on the Toxic Substances Control Act (TSCA) Section 8(b) Chemical Inventory and the Canadian Environmental Protection Act (CEPA) provisional domestic substances list (DSL). This product is not a "hazardous substance" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is not a "controlled product" as defined by the Canadian Workplace Hazardous Materials Information System (WHMIS).

SARA Section 302 Extremely Hazardous Substances:
Not listed

SARA 311/312:

Acute: No

Chronic: No

Fire: No

Reactivity: No

Sudden Release of Pressure: No

SARA Section 313 Toxic Chemicals:

Not listed

Polytetrafluoroethylene is listed on the Pennsylvania Hazardous Substances List.

Section 16 - Additional Information

NFPA Ratings (Scale of 0-4):

Health=1

Fire=0

Reactivity=0

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