

Galden® HT-70



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Section 1 - Chemical product and Company information

Date Revised: June 5, 2008
Product Name: Galden® HT-70
Chemical Name: Propene, 1,1,2,3,3,3-hexafluoro, oxidized, polymerized
Chemical Family: Fluorocarbons, Perfluorinated polyethers
Synonyms: None
Emergency Telephone: 800-424-9300 (CHEMTREC, 24 hours)
856-853-8119

Emergency Overview:

Clear, colorless liquid. Thermal decomposition will generate hydrogen fluoride (HF), which is corrosive.

Section 2 - Compositional information

| <u>Name:</u> | <u>CAS#</u> | <u>Approximate Weight (% wt.):</u> |
|--|-------------|------------------------------------|
| Propene, 1,1,2,3,3,3-hexafluoro, oxidized, polymerized | 69991-67-9 | 100 |

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 respiratory tract irritation.

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 (CO ₂). |

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 0.5ppm and a ceiling limit of 2 ppm (1.7mg/m³). COF₂ has an ACGIH TLV of 2 ppm (5.4 mg/m³) and an 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 as an aid in cleaning up residual liquid. 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

Hydrogen Fluoride / COF₂ (Potential Decomposition Products)

HF has an ACGIH PEL TLV (8hr TWA) of 0.5ppm and a ceiling limit of 2 ppm (1.7mg/m³). COF₂ has an ACGIH TLV of 2 ppm (5.4 mg/m³) and an OSHA PEL TWA of 2 ppm (5 mg/m³).

Engineering Controls:

Ventilation Requirements:

Local Exhaust: Vent vapors or mists generated by processing away from operating personnel. Provide local ventilation appropriate to the decomposition risk (see section 10). Apply technical measures to comply with the occupational exposure limits. For additional information, consult the current edition of the guide to the Safe Handling of Fluoropolymers published by the Society of Plastics Industry, Inc. (SPI) Fluoropolymer Division.

Decomposition By-Product: Treat as hydrogen fluoride (HF) exposure. Check for air contamination - consult an industrial hygienist or occupational health specialist.

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 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 9 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: Clear liquid
Color: Colorless
Odor: Odorless
Vapor Pressure: 141 torr
Vapor Density (Air=1): Not available
Boiling Point: 70°C
Melting Point: Not available
Specific Gravity: 1.7-1.9
Solubility in Water: Insoluble (14 ppm)
% Volatile by Volume: 0
Decomposition Temperature >290°C (554°F)

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).

Materials to Avoid:

Combustible material, Flammable materials, metals promote and lower decomposition temperature, Lewis acids (Friedel-Crafts) above 100°C, Aluminum and magnesium in powder form above 200°C

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**Acute oral toxicity**

- LD50, rat, > 15,000 mg/kg

Acute dermal toxicity

- LD50, rat, > 5,000 mg/kg

Skin irritation

- rabbit, No skin irritation

Eye irritation

- rabbit, No eye irritation

Sensitisation

- guinea pig, Did not cause sensitization on laboratory animals.

Chronic toxicity

- Dermal, 14 days, rabbit, No skin irritation

Genetic toxicity in vitro

- Not mutagenic in Ames Test.

Possible hazards (summary)

- Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.
- The product is biologically inert.
- In vitro tests did not show mutagenic effects

Solvay Acceptable Exposure Limit 1000ppm

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 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

Section 16 - Additional Information

NFPA Ratings (Scale of 0-4):

Health = 1

Fire = 0

Reactivity = 0

Material Safety Data Sheets contain country-specific regulatory information; therefore, the MSDS's provided are for use only by customers of Solvay Solexis, Inc. in North America. If you are located in a country other than Canada, Mexico or the United States, please contact the Solvay Group company in your country for MSDS information applicable to your location.

The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure product).

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