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Material Safety Data Sheet

SPI # 05048-AB Fomblin® VAC3 Vacuum Grease

Section 1 Identification



Date Effective..... October 19, 2011
(most recent revision)

Chemical Name/Synonyms
Propene, 1, 1, 2, 3, 3, 3-hexafluoro, oxidized,
polymerized and polytetrafluoroethylene

Chemical Family..... Fluorocarbons, fluoropolymers

Synonyms Mixture

Emergencies
Contacting CHEMTREC 24 Hour Emergency
Use Only #'s
Worldwide phone : 1-(703)-527-3887
Worldwide FAX : 1-(703)-741-6090
Toll-free phone : 1-(800)-424-9300 USA only

Product or Trade Name... SPI #05048-AB Fomblin® VAC 3 Grease

Emergency Overview:

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

NFPA: Health 1 Fire 0 Reactivity 0
HMIS: Health 1 Fire 0 Reactivity 0

Section 2: Composition

Table with 3 columns: Name, CAS #, Approximate Weight %. Rows include Propene, 1, 1, 2, 3, 3, 3-hexafluoro, oxidized, polymerized and Polytetrafluoroethylene.

Section 3 Hazard Identification

Effects of Over-exposure

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: This is unlikely, but should it occur, no ill effects are expected.

Chronic Health Effects Summary:

Conditions Aggravated by Exposure: No known conditions are aggravated by this material.

Section 4: First Aid Measures

Eyes: In case of contact, immediately flush eyes with copious amounts of flowing water for at least 15 minutes, retracting eye lids often. Get medical attention if irritation persists.

Skin: Wash skin thoroughly with mild soap and water. Flush with luke warm water for 15 minutes.

Inhalation: If symptoms of irritation or discomfort are experienced, or person is overcome by exposure, remove at once to fresh air. Give oxygen or artificial respiration as needed.

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

Section 5: Fire Fighting Measures

Flammability classification: Not classified.

Flash Point/Method: Not applicable

Auto-Ignition Temperature: Not applicable

Flammable Limits:

Lower: Not applicable

Upper: Not applicable

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

Special Conditions to Avoid: High temperatures

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 ACGIL TLV and OSHA PEL TWA of 2 ppm (5 mg/m³).

Firefighting 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

Release response:

In case of a release or spill, absorb material onto vermiculite or similar inert absorbent. Place spilled material into covered container for disposal. Extinguish all ignition sources and evacuate the area. Exercise caution, spill area may be slippery.

Recommended disposal:

Dispose according to applicable local, state/provincial and federal regulations.

Section 7: Handling and Storage**Storage and handling:**

Store in sealed containers. Do not store near combustible materials. Keep away from heat, sparks, and flames. Wash hands after use and before handling food or applying cosmetics. Do not use tobacco products in the immediate area. Do not contaminate cigarette or cigar products with the product because it will decompose in the heat of the cigarette (or cigar) to HF which is very toxic.

Section 8: Exposure Controls and Personal Protection

ACGIH Threshold Limit Value (8 hour time weighted average)
None established

OSHA Permissible Exposure Limit (8 hour 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 Protection:**Respiratory Protection:**

No occupational 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 limitation made by NIOSH/MSHA or the manufacturer must be observed. Respiratory protection programs must be in accordance with 29 CFR 1910.134.

Skin:

Rubber or latex gloves recommended but not necessary.

Eye:

ANSI 87.1 approved safety glasses with side shields or equivalent

Section 9: Physical and Chemical Properties

Appearance: Grease

Color: White

Odor: None

Vapor Pressure: Less than 10-3@ 20°C /68°F

Vapor Density (Air=1): Not available

Boiling Point/Range: Not available

Melting Point/Range: Not available

Specific Gravity: 1.9

Solubility in water: Insoluble

Molecular Formula: Mixture of $CF_3-[(O-OF-CF_3-CF_2)_n-(O-CF_2)_m]-O-CF_3$ and $(C_2F_4)_x$

Molecular Weight: Not available

%Volatile by Volume: 0

Section 10: Stability and Reactivity

Chemical Stability: The product 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 and Lewis acids above 100 °C (212 °F).

Hazardous Products of Deposition:

Thermal decomposition of this product will generate hydrogen fluoride (HF) which is corrosive, causing burns on contact with skin and other tissues.

Reactions with Air and Water: None known

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 irritation

Guinea pig sensitization: not a sensitizer

Section 12: Ecological Information

Exotoxicity:

No ecological information is available for this product.

Section 13: Disposal Considerations

Waste disposal:

Material, as supplied, is not a hazardous waste. Landfill according to current federal, state/provincial, 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

Proper Shipping Name: Chemicals, NOI

DOT Hazard Class: Non-Regulated

UN/NA ID: Not Regulated

Packing Group: Not Applicable

Labels: Not Regulated

Marine Pollutant: No information

DOT Status: Not Regulated

Section 15: Regulatory Information

All components of this product are listed on the Toxic Substance 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 HAZMAT as defined by the OSHA Hazard Communications 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 anywhere.

SARA 311/312

Acute: No

Chronic: No

Fire: No

Reactivity: No

Sudden release of pressure: No

SARA Section 313 Toxic Chemicals: Not listed

California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

No ingredients have been found.

STATE RIGHT TO KNOW LISTS

Polytetrafluoroethylene is listed on the Pennsylvania Hazardous Substances List.

CANADA

This product is not a "controlled product" as defined by the Canadian Workplace Hazardous Materials Information System (WHMIS). All components of this product are listed on the Canadian Environmental Protection Act provisional domestic substances list (DSL).

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact

with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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