

Material Safety Data Sheet

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Section One: General Information

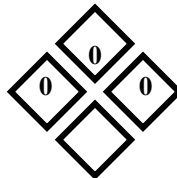
Product Code: **440300**

Product Name: **Fomblin**

NFPA DIAMOND

FLAMMABILITY

HEALTH HAZARD



REACTIVITY

SPECIAL

CAS NUMBER: 69991-67-9

CHEMICAL FORMULA: (CF₃) [(O CF(CF₃) CF₂)_n (O CF₂)_m] O CF₃

GENERIC NAME: Perfluorinated Polyethers

SECTION TWO: REGULATED INGREDIENTS

(29 CFR 1910 . 1200)

REGULATED MATERIALS AT CONCENTRATIONS OF 1% (WT) OR GREATER NO HAZARDOUS INGREDIENTS. MATERIAL IS 100% NEUTRAL PARAFFINIC OIL. MATERIAL HAS BEEN SUBJECT TO SEVERE SOLVENT REFINING.

SECTION THREE: HEALTH HAZARDS

POSSIBLE ENTRY ROUTES: Absorption through the skin - possible
Inhalation and ingestion - rare

TARGET ORGANS: None known

EFFECTS OF EXPOSURE

ACUTE EFFECTS: Exposure to oils mists may cause nausea and eye irritation. Detailed studies have not been made, but material is not expected to be dermatitic or sensitizer.

CHRONIC EFFECTS: Unknown

FIRST AID PROCEDURES: Skin – wash with soap and water. Eyes – flush with water. Contact a physician! Ingestion – give liquids and induce vomiting if victim is conscious. Contact a physician! Small amounts in mouth may be washed out.

REFERENCES: None

SECTION FOUR: FIRE AND EXPLOSION DATA

FLASH POINT: None

METHOD USED: Pensky-Martens closed cup

EXPLOSIVE LIMITS: Lower - Unknown
Upper - Unknown

EXTINGUISHING MEDIA: As appropriate for other combustions in the area.

SPECIAL FIREFIGHTING PROCEDURES: Keep containers cool by spraying with water when exposed to fire. If flames have reached the product causing a possible decomposition yielding toxic compounds, use self contained breathing apparatus.

USUAL FIRE AND/OR EXPLOSION HAZARDS: None

SECTION FIVE: PHYSICAL PROPERTIES

PHYSICAL STATE: Liquid

VAPOR PRESSURE: < .0001 Torr @ 25

BOILING POINT: > 250 C

EVAPORATION RATE (other = 1): Nil

VAPOR DENSITY: approximately 74

WT % VOLATILES: Nil

SPECIFIC GRAVITY: 1.9

VISCOSITY: 72.4 cst @ 40 C

SOLUBILITY IN WATER: Nil

APPEARANCE: Colorless, odorless, transparent, dense, viscous, liquid.

SECTION SIX: REACTIVITY

STABILITY: Material is stable

CONDITIONS TO AVOID: Continuous exposure to temperatures > 260 C

INCOMPATIBILITY (MATERIAL TO AVOID): Strong or non-aqueous alkalis, ammonias and amines, and Lewis acids above 100 C

HAZARDOUS DECOMPOSITION PRODUCTS: At temperatures above 260 C hydrogen fluoride and carbonyl fluoride are formed. TLV/TWA = 2.5 mg/m3 for hydrogen fluoride. TLV/TWA = 5 mg/m3 for carbonyl fluoride

SECTION SEVEN: RELEASE PROCEDURES

PROCEDURES TO BE FOLLOWED IN EVENT OF RELEASE: Eliminate free flames from the area; stop the leak and absorb the liquid and send to disposal.

PROCEDURES FOR PROPER WASTE DISPOSAL: Proper waste disposal procedures are dependent on the product's enduses. Check applicable Federal, State and Local regulations covering treatment, storage and disposal of your effluents.

SECTION EIGHT: SPECIAL PROTECTION

REPIRATORY PROTECTION: Unnecessary

VENTILATION: N/A

PROTECTIVE GLOVES: Not required

SAFETY GLASSES/GOGGLES: Unnecessary

LOCAL EXHAUST: N/A

OTHER PROTECTIVE EQUIPMENT: Not required

MECHANICAL EXHAUST: None

SECTION NINE: SPECIAL PROTECTION

SPECIAL HANDLING PRECAUTIONS: For packaging and transport, use either bottles, drums of glass, polyethylene

SPECIAL STORAGE PRECAUTIONS: None

ADDITIONAL NFORMATION: Keep away from fire, heat sources or hot surfaces. No smoking in working area.