

PFPE OIL

Material Safety Data Sheet

Revision Date December 2011

For Chemical Emergency Call Chemtrec 800-424-9300

1. Substance/Company Identification

MATERIAL IDENTIFICATION: PFPE OIL

GRADE: All grades of PFPE Oil

PRODUCTS:

DS-06-6

DS-14-6

DS-16-6

DS-25-6

COMPANY: Inland Vacuum Industries
35 Howard Ave
Churchville NY 14428
(585) 293-3330

2. Composition/ Ingredients

CAS NUMBER: 60164-51-4

CHEMICAL NAME: Perfluoroalkylether

CHEMICAL FORMULA: $CF_3-[(O-CF(CF_3)-CF_2)_n-(O-CF_2O)_m]-O-CF_3$

3. Potential Health Effects

Skin contact may cause reddening of the skin. The product was not a skin irritant or skin sensitizer in a 100 person human patch test.

Based on data from animal tests, eye contact may cause eye irritation with discomfort, tearing, or blurring of vision.

Inhalation of fluorine containing compounds released as decomposition products from overheated or burning product may cause lung irritation and pulmonary edema which require medical treatment.

CARCINOGENICITY INFORMATION:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

4. First Aid Measures

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact: The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 ml water and mix thoroughly. Administer 5 ml/kg, or 350 ml for an average adult.

5. Fire Fighting Measures

FLASH POINT: Does not ignite

Method: PMCC

Non-combustible

EXTINGUISHING MEDIA: As appropriate for combustibles in area.

SPECIAL EXPOSURE HAZARDS IN A FIRE: The product is not flammable.

FIRE FIGHTING INSTRUCTIONS:

Wear self-contained breathing apparatus. Wear full protective equipment.

Decomposition at flame temperatures may form toxic fluorine compounds. Avoid breathing decomposition products.

6. Accidental Release Measures**SAFEGUARDS (personnel)**

Note: Review fire fighting measures and handling (personnel) sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up

SPILL CLEAN UP

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

ACCIDENTAL RELEASE MEASURES

Place in container for disposal. Remove source of heat and flame.

7. Handling and Storage

Handling: Perfluoropolyether oils are considered to be inert and of low toxicity. However, as with all lubricants it is important to observe correct hygiene practices. Avoid contact with eyes. Avoid contact with skin. Wash thoroughly after handling.

Storage: Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep away from heat and flames to avoid decomposition products.

8. Exposure Controls/Personal Protection: ACGIH Threshold Limit Value (8 hr. time weighted average):

None established

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

None established

Engineering Controls:

Keep container tightly closed.

Use ventilation when the oil is heated above 550 degF. Keep away from heat and flames.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses or coverall chemical splash goggles.

Respirator: Wear NIOSH approved respiratory protection as appropriate.

Protective Clothing: Where there is potential for skin contact have available and wear appropriate, impervious gloves, apron, pants, and jacket

9. Physical & Chemical Properties

FORM: Liquid, viscous oil

PH: Neutral

ODOR: Odorless

SOLUBILITY in WATER: Not soluble

SPECIFIC GRAVITY: 1.86-1.91 @ 24 °C (75°F)

POUR POINT: -57 to -37.7 deg C

COLOR: Colorless

10. Stability & Reactivity

CHEMICAL STABILITY: Stable

INCOMPATIBILITY with Other MATERIALS: None reasonably foreseeable.

DECOMPOSITION: Heating above 350 deg C may form potentially toxic fluorine compounds. Depolymerization may occur in the presence of some metal oxides at temperatures above 288 deg C. Decomposition occurs at increasing rates as temperature is raised above 355 deg C

POLYMERIZATION: Polymerization will not occur.

11. Toxicological Information**ANIMAL DATA:**

Inhalation 4 Hour ALC: >19.54 mg/l in rats

Skin Absorption ALD: >17,000 mg/kg in rabbits

Oral ALD: >25,000 mg/kg in rats

The product is a mild skin and eye irritant, but is not a skin sensitizer in tests on animals. A single inhalation exposure produced nonspecific effects such as

respiratory irritation. Exposure to thermal decomposition products produced irritation, irregular respiration, tremors and increased liver weight. Repeated inhalation exposures to 10, 100, or 1000 mg/m³ caused increased lung weights and microscopic particle-laden macrophages in the lungs and lymph nodes; this was an expected pulmonary response to high aerosol concentrations of an inert material. No animal test reports are available to define carcinogenic, developmental, or reproductive hazards. Tests have shown that the product did not cause genetic damage in bacterial cell cultures.

12. Ecological Information

No ecotoxicological information is available for this material.

13. Disposal Considerations

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

14. Transport Classification

Shipping Class: Not regulated as a hazardous material by DOT, IMO, or IATA.

15. Regulatory Information

TSCA Inventory Status: Reported/Included
TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312
Acute: Yes
Chronic : No
Fire: No
Reactivity: No
Pressure: No

16. Other Information

NPCA – HMIS Rating

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
SPECIAL HAZARD	NONE