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SECTION V - REACTIVITY DATA

Unstable [] Conditions to Avoid: N/A
Stable [X]

Incompatibility (Materials to Avoid): Reacts with active metals like sodium and potassium, amines (including additives), liquid fluorine and liquid chlorine trifluoride. Caution should be used with aluminum and magnesium under conditions of large shear forces such as those found in threaded connections.

Hazardous Decomposition or By-products: The decomposition to toxic, non-sludge forming volatiles occurs rapidly at 325C, noticeably at 300C and in lesser amounts at lower temperatures. Therefore, the maximum safe operating temperature recommended is 200C and maximum short-term temperature recommended is 260C in scrupulously clean systems.

Hazardous Polymerization [] May Occur [X] Will Not Occur
Conditions To Avoid: N/A



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SECTION VI - HEALTH HAZARD DATA

Halocarbon 0.8 oil produced no deaths among 10 rats upon an 8 hr. exposure to 2650 ppm (34.3 mg/L) during a 1999 study and is considered by OSHA definition to be nontoxic. The animals showed no signs of treatment during exposure or 14 days afterward. All animals gained weight during the 14 day observation period. Autopsy showed no macroscopic abnormalities.

In a 4 hour exposure among rats conducted in 1989, Halocarbon 0.8 oil was found to have a LC50 of 4.6 mg/L. This result placed it into EPA Toxicity Category III (Slightly Toxic). The animals generally showed no response during exposure or for at least one day after exposure. Signs of toxicity including tremors, nasal discharge and labored breathing began appearing two or three days after exposure. The responses generally abated in surviving animals during the second week after exposure.

More extensive toxicity studies have been conducted on a slightly heavier Halocarbon oil (3.1). Based on all the available data in three species of animals, limited exposure to Halocarbon oil should not be harmful to any portion of the human anatomy. Studies conducted by the Air Force have demonstrated liver toxicity in rodents, but not in primates. The observed liver toxicity is believed to be specific for rodents and not relevant to humans. Halocarbon oil is not irritating to skin but skin protection should be used to prevent repeated exposure and the possibility of sensitization. All mutagenicity studies were negative.

Since the potential for human toxicity cannot be ruled out, proper ventilation and work practices should be employed.

Primary routes of entry: Inhalation Skin Eyes Oral

Acute Effects of Overexposure: From animal studies, signs of fluoride poisoning may be expected. These include nausea, shortness of breath and loss of appetite.

Chronic Effects of overexposure: Unknown

Carcinogenicity listing: NTP IARC OSHA
 Other:

First Aid

- Inhalation: Remove to fresh air. Apply artificial respiration if needed.
Seek medical help
- Skin: Wash with soap and water.
- Eye: Flush eyes immediately with water for at least 15 minutes.
Seek medical help.
- Oral: Try to induce vomiting. Seek medical help.

Medical Conditions Generally Aggravated by Exposure: None known

Other Health Hazards: None known.



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SECTION VII - PROTECTION INFORMATION

Respiratory: None normally required. For large spills wear SCBA.

Ventilation: Adequate general ventilation plus local exhaust at points of emission.

Eye and Face: Safety glasses/goggles or face shield.

Gloves: Impervious gloves.

Other equipment: None normally required.

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SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

Spill, Leak or Release: Spills may be picked up with absorbent such as vermiculite and held in covered container for disposal.

Waste Disposal: May be incinerated by licensed waste disposal company. Observe all federal, state and local regulations.

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SECTION IX - OTHER INFORMATION

1. Hazardous Materials/Dangerous Goods Shipping Regulations

U.S. (49 CFR): Proper Shipping Name: Non-Regulated

IATA: Proper Shipping Name: Non-Regulated

IMDG: Proper Shipping Name: Non-Regulated

2. Other Information HMIS LABELING: H 1; F 0; R 0; P B

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REVISED: JANUARY 18, 2005