



# SDS – SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product Identifier:** HALOCARBON 0.8 OIL; 0.8H OIL

**Synonyms:** Polychlorotrifluoroethylene

**Chemical Formula:** Cl-(C<sub>2</sub>F<sub>3</sub>Cl)<sub>n</sub>-Cl

**Recommended Use of the Chemical:** Low temperature fluid / Process fluid

**Uses Advised Against:** Not for drug, household or other uses

**Manufacturer / Supplier:** HALOCARBON PRODUCTS CORPORATION

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United States

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**Emergency CHEMTREC Phone:** (800) 424-9300 United States / 001-703-527-3887 International and Maritime

## 2. HAZARD(S) IDENTIFICATION

**Classification of the Substance or Mixture:** Not classified

**Risk Phrases:** None

**Label Elements:**

**Signal Word:** None

**Pictogram:** None

**Hazard Statements:** None

**Precautionary Statements:** None

**Other Hazards:**

**Substance Meets the Criteria for PBT According to Regulation (EC) No. 1907/2006 Annex XIII:**

PBT: Not applicable

**Substance Meets the Criteria for vPvB According to Regulation (EC) No. 1907/2006 Annex XIII:**

vPvB: Not applicable

**Other Hazards Which Do Not Result in Classification:** Not available

## 3. COMPOSITION INFORMATION / INGREDIENTS

Ingredient	CAS Number	EC Number	Percent
Polychlorotrifluoroethylene	9002-83-9	Not applicable	99-100%

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

## 4. FIRST-AID MEASURES

### Description of First Aid Measures:

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give Oxygen. Seek medical help.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention. Seek medical help.

**Skin Contact:** Wash off with soap and plenty of water.

**Eye Contact:** Flush eyes immediately with water for at least 15 minutes. Seek medical help.

### Most Important Symptoms and Effects, Both Acute and Delayed:

#### Potential Acute Health Effects:

**Inhalation:** None known

**Ingestion:** None known

**Skin Contact:** None known

**Eye Contact:** None known

**Over-exposure signs/symptoms:** Prolonged or repeated contact may dry skin and cause irritation. From animal studies, signs of fluoride poisoning may be expected. These include nausea, shortness of breath and loss of appetite.

**Inhalation:** None known with respect to humans

**Ingestion:** None known with respect to humans

**Skin Contact:** None known with respect to humans

**Eye Contact:** None known with respect to humans

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media:

**Suitable Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media:** No information available

### Special Hazards Arising From the Substance or Mixture:

**Hazards From the Substance or Mixture:** No information available

**Hazardous Thermal Decomposition Products:** Thermal decomposition products are toxic and corrosive. See Section 10.

### Advice for Fire-Fighters:

**Special Precautions for Fire-Fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special Protective Equipment for Fire-Fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Avoid breathing vapors, mist or gas. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**Environmental Precautions:** Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

**Methods and Materials for Containment and Cleaning Up:** Spills may be picked up with absorbent such as vermiculite and held in covered container for disposal.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe dust, vapors or spray mist. Avoid contact with skin and eyes.

**Conditions for Safe Storage, Including Any Incompatibilities:** Protect against physical damage. Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children.

**Specific End Uses:** Low temperature fluid / Process fluid

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Airborne Exposure Limits:** No OSHA or ACGIH exposure limits have been established. Safe work practices should always be followed.

**Ventilation System:** Adequate general ventilation plus local exhaust at points of emission. Since the potential for human toxicity cannot be ruled out, proper ventilation and work practices should be employed.

**Personal Respirators (NIOSH Approved):** Under conditions of heavy exposure, respiratory protection is not normally required. Self contained breathing apparatus for large spills.

**Skin Protection:** Wear impervious gloves.

**Eye Protection:** Use chemical safety goggles or goggles. Maintain eye wash fountain and quick-drench facilities in work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear liquid

**Odor:** Slight ethereal odor

**Odor Threshold:** Not determined

**pH:** No data available

**Melting Point:** < -130C (266F)

**Boiling Point / Boiling Range:** 132C (269.6F) Approximate

**Flash Point:** None

**Evaporation Rate (BuAC=1):** No data available

**Flammability:** Not flammable

**Upper / Lower Flammability or Explosive Limits:** Not applicable

**Vapor Pressure (mm Hg):** ca 10 mm Hg at 21C (69.8F)

**Vapor Density (Air=1):** 10 Approximate

**Relative Density:** 1.7 @ 38C (100.4F)

**Solubility:** Negligible

**Partition Coefficient: n-octanol / water:** No data available

**Auto-ignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available  
**Explosive Properties:** Not determined  
**Oxidizing Properties:** Not determined

**Other Information:** No specific data

## 10. STABILITY AND REACTIVITY

**Reactivity:** No data available

**Chemical Stability:** Stable under recommended storage conditions

**Possibility of Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to Avoid:** Incompatibles

**Incompatible Materials:** 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 Products:** The decomposition to toxic, non-sludge forming volatile compounds 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.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** 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 effects during exposure or 14 days afterward. All animals gained weight during the 14 day observation period. Autopsy showed no macroscopic abnormalities.

### Potential Health Effects:

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye Contact:** No data available.

**Chronic Exposure:** No known effects.

**Aggravation of Pre-existing Conditions:** No known effects.

**Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):** No data available.

**Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):** No data available.

**Germ Cell Mutagenicity:** No known effects.

**Reproductive Toxicity:** No known effects.

**Aspiration Hazard:** No known effects.

**Numerical Measures of Toxicity:** Cancer Lists: NTP Carcinogen

Ingredient	Known	Anticipated	IARC Category
Polychlorotrifluoroethylene (9002-83-9)	No	No	None

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Results of PBT and vPvB assessment:** PBT / vPvB assessment not available as chemical safety assessment not required / not conducted.

**Other adverse effects:** No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:** Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. TRANSPORT INFORMATION

**Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic):** Not regulated

**Maritime Transport IMDG/GGVSea:** Not regulated

**Air Transport ICAO-TI and IATA-DGR:** Not regulated

**Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

**Special Precautions for User:** No additional information

## 15. REGULATORY INFORMATION

### Chemical Inventory Status – Part 1

Ingredient	TSCA	EC	Japan	Australia
Polychlorotrifluoroethylene (9002-83-9)	Yes	Yes	Yes	Yes

### Chemical Inventory Status – Part 2

Ingredient	Korea	Canada		Phil.
		DSL	NDSL	
Polychlorotrifluoroethylene (9002-83-9)	Yes	Yes	No	Yes

### Federal, State & International Regulations - Part 1

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List Chemical	Catg.
Polychlorotrifluoroethylene (9002-83-9)	No	No	No	No

### Federal, State & International Regulations - Part 2

Ingredient	RCRA		TSCA
	CERCLA	261.33	8(d)
Polychlorotrifluoroethylene (9002-83-9)	No	No	No

<b>Chemical Weapons Convention:</b> No		<b>TSCA 12(b):</b> No		<b>CDTA:</b> No
<b>SARA 311/312:</b>	<b>Acute:</b> No	<b>Chronic:</b> No	<b>Fire:</b> No	<b>Pressure:</b> No
<b>Reactivity:</b> No		Pure / Liquid		

## 16. OTHER INFORMATION

*Effective Date:* 10/18/2016- Corrected chemical formula, added 0.8H

*Previous Revisions:* 01/02/16, 02/01/11, 02/25/10

### HMIS

Health	1
Flammability	0
Reactivity	0

**Disclaimer:** Halocarbon believes the information given here to be correct. However, we cannot guarantee its accuracy or be responsible for loss or damage that result from the use of such information.