Halocarbon PCTFE Oils

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	Polychlorotrifluoroethylene
CAS No.	9002-83-9
Trade Name	HALOCARBON 0.8 Oil, 0.8H, 1.8, 1.8D, 1.8M, 1.8HPT, 1.8NG, 2.25, 3.0, 4.2, 6.3, 27, 27M, 56, 60, 95, 100, 125, 150, 190, 200, 400, 700, 1000N Oils.
Product Code	None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Lubricating Oils
Uses Advised Against	Not available

Identity of manufacturer/importer and other suppliers

Company Identification	Halocarbon Life Sciences, LLC 6525 The Corners Parkway; Suite 200 Peachtree Corners, GA 30092
Telephone	(470) 419-6363
E-Mail (competent person)	sds@halocarbon.com

Emergency telephone number

Emergency Phone No.	CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)	Not classified as dangerous for supply/use.

Label elements

Hazard Symbol	None
Hazard Statement(s)	None
Precautionary Statement(s)	IF SWALLOWED: Rinse mouth. Treat symptomatically. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention. IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Keep out of reach of children.
Other hazards	None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	% wt.	CAS No.
Polychlorotrifluoroethylene	99-100	9002-83-9

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation	Not normally required. Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
Ingestion	Rinse mouth. Treat symptomatically.
Most important symptoms and effects, both acute and delayed	None known.
Indication of any immediate medical attention and special treatment needed	None known.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Extinguish with water spray, dry chemical, sand or carbon dioxide.
-Unsuitable Extinguishing Media	None anticipated.
Special hazards arising from the substance or mixture	None
Advice for fire-fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective gloves/eye protection.
Environmental precautions	Avoid run off to waterways and sewers.
Methods and material for containment and cleaning up	Cover spills with inert absorbent material.Transfer to a container for disposal or recovery.
Reference to other sections	See Section: 8
Additional Information	None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes.
Hygiene Measures	Wash hands and exposed skin thoroughly after handling.
Environmental Exposure Controls	Avoid release to the environment.

Conditions for safe storage, including any incompatibilities

-Storage temperature	Store at room temperature.
-Incompatible materials	Strong oxidising agents.
Specific end use(s)	Lubricating Oils

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
None	-----	-----	-----	-----	-----	-----

Recommended monitoring method None known.

Exposure controls

Appropriate engineering controls Ensure adequate ventilation.

Personal protection equipment

Eye/face protection — Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection (Hand protection/ Other) — Wear suitable gloves (Nitrile rubber).

Respiratory protection — Normally no personal respiratory protection is necessary.

Environmental Exposure Controls Disposal should be in accordance with local, state or national legislation.

Additional Information None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Color.	Water White
Odor	Not available
Odor Threshold (ppm)	Not available
pH (Value)	Neutral
Melting Point (°C) / Freezing Point (°C)	Not available
Boiling point/boiling range (°C):	≥ 133 (≥ 271 °F)
Flash Point (°C)	None
Evaporation Rate	Not available
Flammability (solid, gas)	Not available

Explosive Limit Ranges	Not available
Vapour pressure (Pascal)	Not available
Vapour Density (Air=1)	Not available
Density (g/ml)	1.7 to 2.0 (14.5 to 16.8 lbs/gal)
Solubility (Water)	Insoluble
Solubility (Other)	Negligible
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Rapidly at 325 ºC, noticeable at 300 ºC, safe operating temperature is 200º C and maximum short term temperature is 260 ºC in scrupulously clean systems
Kinematic Viscosity (cSt)	0.7 to 820 @ 40 ºC
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Not available
Chemical stability	Considered stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid:	Incompatible materials
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 product(s)	The decomposition to toxic, non-sludge forming volatile compounds occurs rapidly at 325 ºC, noticeably at 300 ºC and in lesser amounts at lower temperatures. Therefore, the maximum safe operating temperature recommended is 200 ºC and maximum short term temperature recommended is 260 ºC in scrupulously clean systems.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact**,** Eye Contact

Acute toxicity	Oral: LD50 >15.9 g/kg-bw Dermal: LD50 >5 g/kg-bw
Irritation/Corrosivity	Not to be expected
Sensitization	It is not a skin sensitizer.
Repeated dose toxicity	Not to be expected
Carcinogenicity	No data. It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity	There is no evidence of mutagenic potential.
Reproductive toxicity	Not to be expected

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Acute toxicity (estimated / calculated)	LC50(96 hour): >100 mg/l (fish) EC50(48 hour): >100 mg/l (Daphnia magna) EC50 (72 hour): >100 mg/l (algae)
Long Term Toxicity	Not to be expected

Persistence and degradability	Persistent
Bioaccumulative potential	The substance has low potential for bioaccumulation.
Mobility in soil	No data.
Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods — Disposal should be in accordance with local, state or national legislation.Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number			
Proper Shipping Name	**Not classified as dangerous for transport.**		
Transport hazard class(es)			
Packing group			
Environmental hazards			
Special precautions for user			

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status**:** All substances listed and active.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories: See SECTION 2 - HAZARDS IDENTIFICATION

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	----	----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

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California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None	----	----

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: January 14, 2020

Additional Information: None

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