

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, and all grades followed by an "S" indicate the addition of a rust inhibitor.

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 20092

Telephone (470) 419-6363

E-Mail (competent person) <u>sds@halocarbon.com</u>

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

[&]quot;S" oils contain rust inhibitor at 0.1%.

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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

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-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

		(8hr TWA)			STEL	
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
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

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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)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Insoluble

Negligible

Not available

Not available

Decomposition Temperature (°C) Rapidly at 325 °C, noticeable at 300 °C, safe operating temperature is

200° C and maximum short term temperature is 260 °C in scrupulously

clean systems

Kinematic Viscosity (cSt)

Explosive properties

Oxidizing properties

0.7 to 820 @ 40 °C

Not explosive.

Not oxidizing.

Other information "S" designated products remain oxygen compatible.

SECTION 10: STABILITY AND REACTIVITY

Reactivity Not available

Chemical stability Considered stable under normal conditions.

Possibility of hazardous reactions None known. "S" designated products remain oxygen compatible.

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 °C, noticeably at 300 °C and in lesser amounts at

lower temperatures. Therefore, the maximum safe operating temperature recommended is 200 °C and maximum short term temperature recommended is 260 °C 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 class

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 Sea transport Air transport (U.S. DOT) (IMDG) (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):

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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.

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Additional Information: None

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