

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 Product Code	Halocarbon Mechanical Seal Barrier Fluids, MSHV04n, MSHV04i, MSHV06n, MSHV06i, MSLV27n, MSLV27i, MSLV56n, MSLV56i, MSXTn, and MSXTi Halocarbon PCTFE Oils. None
Relevant identified uses of the substance or mixture and uses	s advised against
Identified Use(s)	Lubricating Oils
Uses Advised Against	Not available
Identity of manufacturer/importer and other suppliers	
Company Identification	Halocarbon, 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: HAZABOS IDENTIFICATION	
SECTION 7. BAZARDS IN ENTIER ATAM	

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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

None



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 -Unsuitable Extinguishing Media	Extinguish with water spray, dry chemical, sand or carbon dioxide. None anticipated.
Special hazards arising from the substance or mixture	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.
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

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

-Incompatible materials

Store at room temperature.

Strong oxidising agents. 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.

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						

None known.

Recommended monitoring method

Exposure controls

Appropriate engineering controls Personal protection equipment

Eye/face protection



Skin protection (Hand protection/ Other)



Ensure adequate ventilation.

Wear protective eyewear (goggles, face shield, or safety glasses).

Wear suitable gloves (Nitrile rubber).

Respiratory protection



Environmental Exposure Controls

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

Normally no personal respiratory protection is necessary.

Additional Information

None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties Appearance Color. Odor Odor Threshold (ppm)

Liquid Water White Not available Not available



pH (Value)

Melting Point (°C) / Freezing Point (°C) Boiling point/boiling range (°C): Flash Point (°C) Evaporation Rate Flammability (solid, gas) Explosive Limit Ranges Vapour pressure (Pascal) Vapour Density (Air=1) Density (g/ml) Solubility (Water) Solubility (Water) Partition Coefficient (n-Octanol/water) Auto Ignition Point (°C) Decomposition Temperature (°C)

Kinematic Viscosity (cSt) Explosive properties Oxidizing properties

Other information

Neutral Not available ≥ 133 (≥ 271 °F) None Not available Not available Not available Not available Not available 1.7 to 2.0 (14.5 to 16.8 lbs/gal) Insoluble Negligible Not available Not available

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

0.7 to 820 @ 40 °C Not explosive. Not oxidizing.

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 °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.



Г	NTD	1400	4000	00114	NIOCU		
	NTP No.	IARC	ACGIH No.	No.	NIOSH		
	INO.	No.	INO.	NO.	No.		
Mutagenicity There is no evidence of mutagenic potential.							
Re	productive toxicity		Not to	be expected			
				•			
SE	CTION 12: ECC	LOGICAL INFORM	ATION				
Ec	otoxicity						
	-	tod (coloulated)					
Acute toxicity (estimated / calculated)				LC50(96 hour): >100 mg/l (fish) EC50(48 hour): >100 mg/l (Daphnia magna)			
				2 hour): >100 mg/l (algae			
			E030 (72	nour). >100 mg/r (alyae	;)		
Long Term Toxicity			Not to be	expected			
Ре	rsistence and degra	adability	Persister	ıt			
Bioaccumulative potential			The subs	The substance has low potential for bioaccumulation.			
Mobility in soil			No data.	No data.			
Results of PBT and vPvB assessment			Not class	Not classified as PBT or vPvB.			
Other adverse effects			None kno	None known.			
SF		POSAL CONSIDERA					
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Wa	ste treatment meth	ods	The generation of	waste should be avoided	d or minimized wherever		
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possible. Disposal of this product, solutions, any by-products and containers should be in accordance with local, state, and national regulation, at an approved waste-handling facility. Do not release into drains, sewers, soil, or any body of water. 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 Transport hazard class(es) Packing group Environmental hazards Special precautions for user

Not classified as dangerous for transport.

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			

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None		

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 5, 7, 13.

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Additional Information: None

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