

Materials Safety Data Sheet

TorrLube PFPE Oils TLC 10 - 13 - 15

This Materials Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements of other countries.

SECTION 1. PRODUCT AND COMPANY INFORMATION		
Product Name	TorrLube® PFPE Oils	
Product Grade Type	TLC 10 - 13 - 15	
MSDS Number	3000001868	
Product Use	Vacuum Lubricant	
Manufacturer	The TorrLube Company, LLC 601 East Ocean Ave., Suite 16, Lompoc, CA 93436	
SECTION 2. HAZARDS IDENTIFICATION		
Emergency Overview	The product as such is not hazardous. Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.	
Potential Health Effects		
Perfluoropolyether	Skin	May cause skin irritation. May cause itching, discomfort, redness, and swelling.
	Eyes	May cause eye irritation. May cause tearing, redness, discomfort.
Carcinogenicity	None of the components present in this material at concentrations to or greater than 0.1% is listed by IARC, NTP, or OSHA, as a carcinogen.	
SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS		
Component	CAS-No.	Concentration
Perfluoropolyether		100%
SECTION 4. FIRST AID MEASURES		
Skin contact	Wash with soap and water as a precaution	
Eye contact	Rinse with plenty of water. If eye irritation persists consult a specialist.	
Inhalation	Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.	
Ingestion	Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to by a physician or poison control center.	
General Advice	When symptoms persist or in all cases of doubt seek medical advice.	
SECTION 5. FIRE-FIGHTING MEASURES		
Flammable Properties		
Flashpoint	Method: Pensky-Martens closed cup – PMCC. Does not flash.	
Thermal Decomposition	ca. 350 C (662 F)	
Fire and Explosion Hazard	In fire conditions, toxic decomposition products may be formed.	
Suitable Extinguishing Media	Wear self-contained breathing apparatus. Wear suitable protective equipment. Standard procedure for chemical fires.	
SECTION 6. ACCIDENTAL RELEASE MEASURES		
NOTE: Review FIREFIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.		
Spill Cleanup	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	
Accidental Release Measures	Prevent material from entering sewers, waterways, or low areas.	

SECTION 7. HANDLING AND STORAGE		
Handling	Avoid breathing vapors from overheated material. Practice general industrial hygiene practice.	
Storage	No special storage conditions required. Keep container closed to prevent contamination. No decomposition if stored and applied as directed.	
SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION		
Engineering Controls	If the polymer is heated above 350° C (662° F), local ventilation should be used to avoid fumes.	
Personal Protective Equipment		
Respiratory Protection	No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.	
Hand Protection	No particular glove type is recommended, but nitrile may be used.	
Eye Protection	Safety glasses	
Skin and Body Protection	No PFPE is specified however; avoid contact with skin, eyes, and clothing. Preventive skin protection.	
Exposure Guidelines/Limit Values	None Established	
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES		
Form	viscous, liquid	
Color	colorless	
pH	neutral	
Pour Point	-55° — 15° C (-67° — 5° F)	
Specific Gravity	ca. 1.86 – 1.91 at 24° C (75° F)	
Water Solubility	insoluble	
SECTION 10. STABILITY AND REACTIVITY		
Stability	Stable under recommended storage conditions.	
Conditions to Avoid	Decomposition temperatures of 350° C (662° F)	
Hazardous Decomposition	Products	Fluorinated compounds
SECTION 11. TOXICOLOGICAL INFORMATION: Perfluoropolyether		
Dermal ALD	ca. > 17,000 mg/kg, rabbit	
Oral LD50	> 37,400 mg/kg, rat	
Inhalation 4 h ALC	ca. > 19.54 mg/l, rat	
Eye irritation	Slight irritation, rabbit	
Skin Sensitization	Patch test on human volunteers did not demonstrate sensitization properties.	
Mutagenicity	Did not cause genetic damage in cultured bacterial cells.	
Further information	The substance is a polymer and is not expected to produce toxic effects.	
SECTION 12. ECOLOGICAL INFORMATION: Perfluoropolyether		
Aquatic Toxicity	96 h LC50	Oncorhynchus mykiss (rainbow trout) > 1, 000 mg/l
	48 h EC50	Daphnia magna (Water flea) > 1, 000 mg/l
SECTION 13. DISPOSAL CONSIDERATIONS		
Waste Disposal	In accordance with local and national regulations.	
Environmental Hazards	Dispose of container properly. If recycling is not practicable, dispose of in compliance with regulations.	
SECTION 14. TRANSPORT INFORMATION		
Not classified as dangerous in the meaning of transport regulations.		
SECTION 15. REGULATORY INFORMATION		
TSCA Status	On the inventory, or in compliance with the inventory	
Contact Person	MSDS coordinator, TorrLube® Products, Lompoc, CA 93436 Phone: 805.733.1476	

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