Safety Data Sheet TorrLube PFPE Oils **TLC 10 - 13 - 15** 

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

NFORMATION		
TorrLube® PFPE Oils		
TLC 10 - 13 - 15		
3000001868		
Vacuum Lubricant		
The TorrLube Company, LLC 3769 Constellation Rd., Suite F, Vandenberg Village, CA 93436		
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None		
110110		
None		
P281 Use personal protective equipment as required.		
P314 Get medical attention if you feel unwell.		
P402 + P404 Store in a dry	/ place, in a closed container.	
	nd container according to local and national regulations.	
	0	
	Concentration	
60164-51-4	100%	
Wash with soap and water as a precaution		
Rinse with plenty of water. If eye irritation persists consult a specialist.		
Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.		
Never give anything by mouth to an unconscious person. DO NOT induce vomiting unless directed to by a physician or poison control center.		
When symptoms persist or in all cases of doubt seek medical advice.		
Method: Pensky-Martens closed cup – PMCC. Does not flash.		
ca. 350 C (662 F)		
In fire conditions, toxic decomposition products may be formed.		
Wear self-contained breathing apparatus. Wear suitable protective equipment. Standard procedure for chemical fires.		
SURES		
 S and HANDLING (PERS)	ONNEL) sections before proceeding with clean up. Use appropriate PERSONAL	
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ıp.	rbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).	
	TorrLube® PFPE Oils  TLC 10 - 13 - 15  3000001868  Vacuum Lubricant  The TorrLube Company  None  None  None  P260 Do not breathe dust, P281 Use personal protect P314 Get medical attentior P402 + P404 Store in a dry P501 Dispose of content at  ION ON INGREDIENTS  CAS-No.  60164-51-4  Wash with soap and wa Rinse with plenty of wa Move to fresh air in cas Never give anything by by a physician or poiso When symptoms persis  Method: Pensky-Marter ca. 350 C (662 F)  In fire conditions, toxic Wear self-contained bre chemical fires.  SURES	

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	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		
рН	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. TOXILOGICAL INFORMATI	ON: 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 CONSIDERATION	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 SDS coordinator, TorrLube® Products, Vandenberg Village, CA 93436 Phone: 805.733.1476			

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