

Barrierta IEL/V Grease

(Klüber Lubrication North America – Barrierta IEL/V)

MATERIAL SAFETY DATA SHEET

VARIAN Part Numbers - PTSS0600MK PTSS0300MK PTSS0600TK PTSS0300TK

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Material Safety Data Sheet

Product name: **BARRIERTA IEL/V** Date: September 1998 Replaces: July 1995 Page: 1 of 3

		Section I			
Company: Klüber Lubrication North America L.P. 54 Wentworth Avenue Londonderry, N.H. 03053 Phone: (603)434-7704 Fax: (603)434-8046					
Emergency telephone no.: 1-8	00-424-9300 Cher	ntrec			
Article Nr.: 320099	Product Use: Hig	h Temperature Lu	bricating Greas	e (Fluoride Base)	
	Section I	I - Hazardous Ing	<u>gredients</u>		
Hazardous ingredients PTFE Magnesium-oxide Benzotriazole	CAS no. Proprietary Proprietary Proprietary	wt.% Proprietary Proprietary Proprietary	TLV N/A N/A N/A	PEL N/A N/A N/A	
	Section III - Of	her Ingredients	(Trade Secret))	
Ingredients Perfluoroether oil	CAS no. Proprietary	wt.% Proprietary	TLV N/A	PEL N/A	
Boiling point (°C): N/Av Vapor pressure (at 20°C): Very Vapor Density (air=1): N/Av Solubility in water: insoluble Specific gravity (H ₂ 0=1): ~1.9 Percent volatile by volume (%): Percent solid by weight (%): < Evaporation rate (Butyl acetate pH: 7 Appearance and odor: white pa	v little 0 30 =1): N/Av	on IV - Physical	<u>Data</u>		
Flash point: N/A Lower explosion limit: N/A Upper explosion limit: N/A Extinguishing media: The pr Unusual fire and explosion h fumes. See Section VIII. Special fire Fighting Proced apparatus.	roduct itself does r nazards: The proc	duct itself is not fla	dia appropriate ammable, but it	for the environment.	

The information herein is given in good faith, but without warranty, express or implied. All risks of use of the product are therefore assumed by the user. Appropriate warnings and safe handling procedures must be provided to handlers and users.



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Section VI - Health Hazard Data

Toxicological information from products of similar composition Acute toxicity : LD50/oral/rat = > 37.4 g/kg (perfluoropolyether)

Eye Contact: May cause mild irritation on direct contact.

Skin contact: Prolonged or repeated contact may cause the removal of skin oils, possibly leading to irritation and/or dermatitis.

Inhalation: Not applicable under conditions of normal use.

Ingestion: Obtain medical attention immediately. Do not induce vomiting, unless instructed by a physician. Never give anything by mouth to an unconscious person.

Section VII - Emergency and First Aid Procedures

After inhalation: Not applicable under normal conditions of use. However, under conditions described in Section VIII, remove the individual to fresh air. Provide artificial respiration if necessary.

After contact with skin: Wash off with soap and plenty of water. Apply skin cream if necessary. Seek medical attention if irritation or infection occurs. Remove contaminated clothing.

After contact with eyes: Flush with plenty of water. If irritation persists, or if an infection develops, seek medical attention.

After ingestion: If large amounts are swallowed, do not induce vomiting. Get medical attention.

Advice to doctor: Treat symptomatically.

Section VIII - Reactivity Data

Stability: Stable

Conditions to avoid: Open flames and other sources of heat.

Materials to avoid: AICl₃, SbF₃, CoF₃. Aluminum, titanium and their allows, may cause a lower decomposition temperature, increasing the likelihood of the conditions described below.

Hazardous decomposition products: At temperatures >280C, the product may thermally decompose to a fluorocarbon chain in the air leading to formation of oxidized products containing carbon, fluorine, and oxygen. Because these products decompose in part by hydrolysis in alkaline solution, they can be quantitatively determined in air as fluoride to provide an index of exposure. No TLVs are recommended at this time, but air concentration should be controlled as low as possible.

Section IX - Spill or Leak Procedures

Steps to be taken in case material is released or spilled

Scoop up material and add absorbent if necessary. Collect product and absorbent, place in a chemical waste container. Keep product out of waterways.

Waste disposal method

Recovered lubricant must be disposed of or reclaimed in compliance with all federal, state and local regulations. Do not dump into sewers, on the ground, or into any body of water. If incinerated, ensure that the incinerator is designed to burn fluorine containing materials. See Section XII.

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Section X - Special Protection Information

Respiratory protection: No special protective equipment required under normal conditions of use.

Hand protection: Wear impervious gloves.

Eye protection: Wear safety glasses. Do not wear contact lenses when working with chemicals.

Body protection: Wear clean, body-covering clothing to minimize dermal exposure.

Ventilation: Under normal conditions of use, no special ventilation required. However, if process heats the product above 200C, use local exhaust ventilation.

Other protection measures: Safety showers, eye wash fountains, and washing facilities should be readily available.

Section XI - Special Precautions for Handling and Storage

Avoid prolonged and/or repeated contact with skin. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream. Wash hands with soap and water before eating, drinking, and/or smoking.

Do not store together with food.

Store at room temperature in the original container. This product should not be stored near extreme heat sources nor ignition sources.

Section XII- Additional Information

PTFE is listed as a hazardous substance in the state regulated substance in the state of Pennsylvania.

Magnesium-oxide is a regulated substance in the state of New Jersey and must be disclosed in concentrations >1% under WHMIS.

Benzotriazole is a listed substance in the state of Massachusetts. This substance has also been selected for a general toxicology study under the National Toxicology Program (NTP).

HMIS Rating		NFPA Rating	
Health:	1	Health:	2
Flammability:	1	Flammability:	1
Reactivity:	0	Reactivity:	0
Protective Equipment:	В	Special:	N/A

Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether the product meets any of the criteria for a hazardous waste. Conditions may render the spent product as hazardous, under the criteria for characteristics of hazardous waste under EPA CFR 40, 261.20.

Not hazardous by D.O.T. regulations.

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