Klüber Tyreno Fluid M-100V for low and fine vacuum applications (mech. backing pumps)



Description:

Klüber Tyreno Fluid M-100V is a straight cut mineral oil.

Application:

Working fluid for universal application in oil-sealed vacuum pumps extracting air, noble gases, but not oxygen.

Klüber Tyreno Fluid M-100V achieves a final pump pressure of approx. 10^{-3} measured in double-stage backing pumps.

Application notes:

Prior to filling, flush the pumps with fresh oil to remove solid residues. Avoid mixing with synthetic oils.

Minimum shelf life:

The minimum shelf life is 36 months if the product is stored in the original closed container in a dry place.

Pack units:

PE canister of 5 I PE canister of 10 I PE canister of 20 I Steel drum of 200 I

Klüber Tyreno Fluid M-100V

- Low final pressures, low backflow rate
- Excellent price/efficiency ratio
- Multipurpose oil
- Suitable for oil-sealed singleand double stage pumps

Product data:

Base	mineral oil	
Colour, aspect	light yellow, clear	
Density at 20 °C (g/cm³), DIN 51 757	approx. 0.90	
Viscosity at 40 °C mm ² /s DIN 51 562, pt. 1	approx. 100	
Flash point, DIN ISO 2592, °C	approx. 250	

Klüber Tyreno Fluid M-100V Safety Data Sheet

1.1	Product name: Klüber Tyreno Fluid M-100V Code-No.: 130 031		Physical and chemical pro Form	liquid
	18.1.2000		Colour	light yellow
			Odour	characteristic
.2	Klüber Lubrication München KG Emergency telephone no.:		Pour point	< – 10 °C, DIN ISO 3016
	Geisenhausenerstraße 7 ++49 - 89 7876 - 0		Flash point	~ 250 °C, DIN ISO 2592
			Flammability	not applicable °C
	Tel. ++49 - 89 78 76 - 0 telephone exchange		Ignition temperature	not applicable °C
	Fax: ++49 - 89 78 76 - 333		Autoflammability	not applicable
			Lower explosion limit	not applicable
	Composition / information on ingredients		Upper explosion limit	not applicable
	Chemical characterization (preparation): Mineral oil		Vapour pressure-first	not applicable
Additional information: No hazardous ingredients			Density	approx. 0.90 g/cm ³ , 20 °C,
			-	DIN 51 757
			Water solubility	insoluble, g/l
	Hazards identification		pH value	not applicable
	No particular hazards known		Kinematic viscosity	approx. 100 mm ² /s, 40 °C,
				DIN 51 562
	First aid measures After inhalation: Not applicable		Further information	None
	After contact with skin: Wash off with soap and plenty of water			
	After contact with eyes: Rinse with plenty of water	10.	Stability and reactivity	and the set flood with the
	After ingestion: Do not induce vomiting. Obtain medical attention		Conditions to avoid: Do not h	
	Advice to doctor: Treat symptomatically. If swallowed or in the event of		Materials to avoid: Strong ox	
	Advice to doctor: I reat symptomatically. If swallowed or in the event of vomiting, risk of product entering the lungs		Hazardous decomposition pr Additional information: None	oducts: None under normal use
5.	Fire-fighting measures			
	Suitable extinguishing media: Water spray, foam, dry powder, carbon	11.	Toxicological information	
	dioxide (CO ₂)			een taken from products of similar
	Unsuitable extinguishing media: High volume water jet		composition	
	Special Hazards: In case of fire the following can be released: Carbon		Acute toxicity: LD ₅₀ /oral/rat =	> 2 g/kg (literature data)
	monoxide, hydrocarbons		Chronic toxicity: None	
	Special protective equipment for firefighters: Standard procedure for			ed skin contact may cause skin irritation
	chemical fires		and/or dermatitis	
	Additional information: Water mist may be used to cool closed			
	containers. In the event of fire and/or explosion do not breathe fumes			
		12.	Ecological information	
_		Information on elimination (persistence and degradability): Produ		ersistence and degradability): Product is
3.	Accidental release measures			eparated out mechanically in purification
	Personal precautions: Risk of slipping due to leakage/spillage of product		plants	
	Environmental precautions: Do not flush into surface water or sanitary			compartments: Ecological injuries are not
	sewer system		known or expected under no	
	Methods for cleaning up / taking up: Soak up with inert absorbent		Ecotoxic effects: Aquatic tox	icity is unlikely due to low solubility
	material (e.g. sand, silica gel, acid binder, universal binder, sawdust).		Additional information: Should	Id not be released into the environment
	Dispose of absorbed material in accordance with the regulations			
	Additional information: None			
		13.	. Advice on Disposal Disposal: Dispose of in accordance with your local, state and federal	
7.	Handling and storage			
	Advice on safe handling: Avoid formation of aerosol		regulations as used oil for re	
	Advice on protection against fire and explosion: No special precautions		rinsed packaging material to	ckaging and recommended cleaning: Offe
	required		miseu packaging material to	iocal recycling facilities
	Requirements on storage rooms and vessels: No special storage			
	conditions required		The second information	
	Incompatible materials: Incompatible with oxidizing agents. Do not store	14.	Transport information	and some the state
	together with food		GGVS / GGVE:	not applicable
	Further information on storage conditions: Store at room temperature in		ADN / ADNR:	not applicable
	the original container		IMDG-Code: ICAO / IATA-DGR:	not applicable not applicable
	_			sified as dangerous in the meaning of
•			transport regulations	since as dangerous in the meaning of
8.	Exposure controls / personal protection			
	Additional advice on system design: Not applicable			
	Ingredients and specific control parameters: None	15	Regulatory information	
	Respiratory protection: No special protective equipment required	15.		idelines: The product does not require a
	Hand protection: No special protective equipment required			rdance with EC-directives/German
	Eve protection: No special protective equipment required		regulations on dangerous su	
			National regulations	
	Body protection: No special protective equipment required			
	Other protection measures: No special protective equipment required			
	General protection and hygiene measures: Avoid prolonged and/or	40		
	repeated contact with alkin. Clean alkin therewally ofter works apply alkin	16.	Other information	
	repeated contact with skin. Clean skin thoroughly after work; apply skin		loove depertment of Oof 1	Data Chaoti Chamias! Descurrented
	cream. Remove soiled or soaked clothing immediately. Do not inhale aerosol		Issue-department of Safety I Tel.: ++49 - 89 7876 - 564	Data Sheet: Chemical Documentation,

reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this product information at any time without notice.

Freudenberg

Klüber Lubrication München KG, a member of the Freudenberg group

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