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SECTION 1. IDENTIFICATION

- Product name : THERMOYLE 20P
- Article-No. : 340418

Manufacturer or supplier's details

Company name of supplier :	Klüber Lubrication NA LP 9010 County Road 2120 Tyler, Texas 75707 USA Phone: +1 903 534-8021 Fax: +1 903 581-4376 32 Industrial Drive Londonderry, NH 03053 USA Phone: +1 603 647-4104 Fax: +1 603 647-4106
E-mail address of person :	mcm@us.kluber.com
responsible for the SDS	Material Compliance Management
Emergency telephone : number	+1-517-545-7070 NCEC
Recommended use of the cher	nical and restrictions on use
Recommended use :	Lubricating oil

SECTION 2. HAZARDS IDENTIFICATION

Restrictions on use

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

: Restricted to professional users.

Reproductive toxicity	:	Category 2		
Aspiration hazard	:	Category 1		
GHS label elements				
Hazard pictograms	:			





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Signa	l word	:	Dar	nger		
Hazaı	rd statements	:		May be fatal if swallowed and enters airways. Suspected of damaging fertility.		
Preca	Precautionary statements		Prevention: Obtain special instructions before use. Wear protective gloves/ protective clothing/ eye protection/ fa protection.			g/ eye protection/ face
	Response: IF SWALLOWED: Immediately call a POISON CENTER/ docto Do NOT induce vomiting.					SON CENTER/ doctor.
				rage: re locked up.		
			Dis	posal:		
			Dis plar		ontainer to an appi	oved waste disposal
Other	⁻ hazards					
None	known.					
SECTION	3. COMPOSITION/IN	FORM	ΙΑΤΙ		NTS	
Subst	ance / Mixture	:	Mix	ture		
Chem	Chemical nature : Mineral oil.					
Components						
Chem	nical name			CAS-No.	Concent	ration (% w/w)
Miner	al Oil			Proprietary		et (>= 80 - <= 100)

Chemical name	CAS-No.	Concentration (% w/w)				
Mineral Oil	Proprietary	Trade secret (>= 80 - <= 100)				
Benzenamine, N-phenyl-, reaction	68411-46-1	Trade secret (>= 1 - < 5)				
products with 2,4,4-trimethylpentene						
Actual concentration is withheld as a trade secret						

Actual concentration is withheid as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled

Obtain medical attention. : Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.





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		If breathing is irregular or stop respiration.	ped, administer artificial
In ca	se of skin contact	 Take off all contaminated cloth Wash off immediately with soa Get medical attention immedia persists. Wash clothing before reuse. Thoroughly clean shoes before 	ap and plenty of water. Itely if irritation develops and
In ca	se of eye contact	: Rinse immediately with plenty for at least 10 minutes. If eye irritation persists, consul	of water, also under the eyelids, It a specialist.
lf swa	allowed	 Move the victim to fresh air. If unconscious, place in recover advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth Aspiration hazard if swallowed damage. 	to an unconscious person.
	important symptoms effects, both acute and red	: Risk of product entering the lu Health injuries may be delayed Aspiration may cause pulmona	
Notes to physician		: Treat symptomatically.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NOx)
Further information	:	Standard procedure for chemical fires.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.





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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling :	Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not get on skin or clothing. Do not repack. Do not repack. Do not re-use empty containers. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use.
Conditions for safe storage :	Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.





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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Mineral Oil	Proprietary	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)
		TWA (Mist)	5 mg/m3	OSHA Z-1 (2018-03-15)
		TWA (Mist)	5 mg/m3	OSHA P0 (1989-01-19)
		TWA (Mist)	5 mg/m3	NIOSH REL (2019-10-04)
		ST (Mist)	10 mg/m3	NIOSH REL (2019-10-04)

Engineering measures	:	Handle only in a place equipped with local exhaust (or other
		appropriate exhaust).

Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type A-P
Hand protection Material Break through time Protective index	:	Nitrile rubber > 10 min Class 1
Remarks	:	Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.



SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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Appearance liquid 2 Colour colourless 2 Odour mild : **Odour Threshold** No data available ÷ Not applicable pН : substance/mixture is non-soluble (in water) Melting point/range 2 No data available Boiling point/boiling range 2 No data available Flash point >= 365 °F / 185 °C 1 Method: open cup Evaporation rate No data available 5 Flammability (solid, gas) Not applicable 1 Self-ignition No data available ÷ Upper explosion limit / Upper : No data available flammability limit Lower explosion limit / Lower : No data available flammability limit < 0.001 hPa (68 °F / 20 °C) Vapour pressure : Relative vapour density No data available : 0.846 (68 °F / 20 °C) Relative density 1 Reference substance: Water The value is calculated

Bulk density : No data available





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	bility(ies) /ater solubility	:	insoluble	
S	olubility in other solvents	3 :	No data available	
	tion coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Deco	mposition temperature	:	No data available	
Visco Vi	osity iscosity, dynamic	:	No data available	
Vi	iscosity, kinematic	:	20 mm2/s (104 °F / 40 °C)	
Explo	osive properties	:	Not explosive	
Oxidi	izing properties	:	No data available	
Subli	mation point	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No conditions to be specially mentioned.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
		a brand of

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Acute	e dermal toxicity	: Remark	ks: This information is not a	available.
<u>Com</u>	ponents:			
Mine	ral Oil:			
Acute	e oral toxicity		Rat): > 5,000 mg/kg I: OECD Test Guideline 40 es	11
Acute	e inhalation toxicity	Exposu Test atr Method Assess	Rat): > 5.53 mg/l ire time: 4 h nosphere: dust/mist l: OECD Test Guideline 40 ment: The substance or m on toxicity	
Acute	e dermal toxicity		Rabbit): > 5,000 mg/kg l: OECD Test Guideline 40 es	02
Benz	enamine, N-phenyl-	reaction prod	ucts with 2,4,4-trimethyl	pentene:
	e oral toxicity	: LD50 (F	Rat): > 5,000 mg/kg I: OECD Test Guideline 40	-
Acute	e dermal toxicity	Method	Rat): > 2,000 mg/kg l: OECD Test Guideline 40 ment: The substance or m	
Skin				
SKIII	corrosion/irritation			
Prod				
-	uct:	: This inf	ormation is not available.	
Prod Rema	uct:	: This inf	ormation is not available.	
Prod Rema Com	<u>uct:</u> arks	: This inf	ormation is not available.	
Prod Rema Com Mine Spec	<u>uct:</u> arks <u>ponents:</u> ral Oil: ies	: Rabbit		
Prod Rema Com Mine Spec Asse	uct: arks ponents: ral Oil: ies ssment	: Rabbit : No skin	irritation	
Prod Rema <u>Com</u> Mine Spec	uct: arks ponents: ral Oil: ies ssment	: Rabbit : No skin		
Prod Rema Com Mine Spec Asse Resu GLP	uct: arks ponents: ral Oil: ies ssment lt	: Rabbit : No skin : No skin : yes	irritation irritation	nontono:
Prod Rema Com Mine Spec Asse Resu GLP Benz	uct: arks ponents: ral Oil: ies ssment lt :enamine, N-phenyl-	: Rabbit : No skin : No skin : yes reaction prod	irritation	pentene:
Prod Rema Com Mine Spec Asse Resu GLP Benz Spec	uct: arks ponents: ral Oil: ies ssment lt :enamine, N-phenyl-	: Rabbit : No skin : No skin : yes reaction prod : Rabbit	irritation irritation	pentene:
Prod Rema Com Mine Spec Asse Resu GLP Benz Spec	uct: arks ponents: ral Oil: ies ssment lt cenamine, N-phenyl- ies ssment od	: Rabbit : No skin : No skin : yes reaction prod : Rabbit : No skin : OECD	irritation irritation lucts with 2,4,4-trimethyl	pentene:





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Serious eye damage/eye irritation

Product:

Remarks

: This information is not available.

Components:

Mineral Oil:

Species	:	Rabbit
Result	:	No eye irritation
Exposure time	:	48 h
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

:	Rabbit
:	No eye irritation
:	No eye irritation
:	OECD Test Guideline 405
	:

Respiratory or skin sensitisation

Product:

Remarks

: This information is not available.

Components:

Mineral Oil:

Test Type :	Buehler Test
Species :	Guinea pig
Assessment :	Did not cause sensitisation on laboratory animals.
Method :	OECD Test Guideline 406
Result :	Did not cause sensitisation on laboratory animals.
GLP :	no

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.
Method	:	OECD Test Guideline 406
Result	:	Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Remarks: No data available
Genotoxicity in vivo	:	Remarks: No data available





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<u>Com</u>	oonents:					
Mine	ral Oil:					
Germ	cell mutag ssment	enicity -	:	Tests on bacte mutagenic effe		cell cultures did not show
Carci	nogenicity	1				
Produ	uct:					
Rema	arks		:	No data availa	ble	
<u>Com</u>	oonents:					
Mine	ral Oil:					
	nogenicity - ssment		:	No evidence c	f carcinogenicity in a	animal studies.
IARC						er than or equal to 0.1% is carcinogen by IARC.
IARC						
OSH/				this product pro regulated carci		er than or equal to 0.1% is
NTP					esent at levels greated ed carcinogen by N	er than or equal to 0.1% is TP.
Repro	oductive to	oxicity				
Produ	uct:					
Effect	s on fertility	ý	:	Remarks: No	data available	
	s on foetal opment		:	Remarks: No	data available	
<u>Com</u>	<u>oonents:</u>					
Mine	ral Oil:					
Reproductive toxicity - Assessment		:	- Fertility -			
			No toxicity to r			
				-	or via lactation	
Benz	enamine, N	N-phenyl-, re	eacti	on products w	vith 2,4,4-trimethylp	pentene:
Reproductive toxicity -	:	- Fertility -				
Assessment			Some evidence	e of adverse effects	on sexual function and	





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		fertility, based on animal experime	ents.
Repe	ated dose toxicity		
Prod	uct:		
Rema	arks	: This information is not available.	
Aspir	ration toxicity		
Prod	uct:		
May t	be fatal if swallowed	and enters airways.	
Com	ponents:		
Mine	ral Oil:		
May t	be fatal if swallowed	and enters airways.	
Furth	ner information		
Prod	uct:		
Rema	arks	: Information given is based on data the toxicology of similar products.	a on the components and

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity		
<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

Components:

Benzenamine, N-phenyl-	, reaction products with 2,4,4-trimethylpentene:
Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 mg/l





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			Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	3
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20	
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatu Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20	
Persis	stence and degradabi	lity		
<u>Produ</u> Biodeg	<u>ıct:</u> gradability	:	Remarks: No data available	
	co-chemical /ability	:	Remarks: No data available	
<u>Comp</u>	oonents:			
Miner	al Oil:			
Biode	gradability	:	Result: not rapidly degradable Biodegradation: 31 % Exposure time: 28 d	
Benze	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethyl	pentene:
Biode	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes	
Bioac	cumulative potential			
<u>Produ</u>	<u>ict:</u>			
Bioaco	cumulation	:	Remarks: This mixture contains n be persistent, bioaccumulating an	
			12 / 16	a brand of





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			This mixture contains no substance conspersistent and very bioaccumulating (vP	
<u>Com</u>	ponents:			
Mine	ral Oil:			
Partiti	ion coefficient: n- ol/water	:	Pow: > 6 Remarks: Information given is based on similar substances.	data obtained from
Benz	enamine, N-phenyl-, re	eacti	on products with 2,4,4-trimethylpenter	ne:
Partiti	ion coefficient: n- ol/water	:	log Pow: > 5	
Mobi	lity in soil			
Prod	uct:			
Mobil	ity	:	Remarks: No data available	
	bution among onmental compartments	:	Remarks: No data available	
Othe	r adverse effects			
Prod	uct:			
Ozon	e-Depletion Potential	:	Regulation: 40 CFR Protection of Enviro Protection of Stratospheric Ozone - CAA Substances Remarks: This product neither contains, manufactured with a Class I or Class II O U.S. Clean Air Act Section 602 (40 CFR B).	A Section 602 Class I nor was DDS as defined by the
	ional ecological nation	:	No information on ecology is available.	
<u>Com</u>	ponents:			
Mine	ral Oil:			
	lts of PBT and vPvB ssment	:	Non-classified PBT substance Non-class	sified vPvB substance





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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Do not dispose of with domestic refuse.
Contaminated packaging	Dispose of as hazardous waste in compliance with local and national regulations.Packaging that is not properly emptied must be disposed of as
	the unused product. Dispose of waste product or used containers according to local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

National Regulations

49 CFR Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

:

SARA 311/312 Hazards

Reproductive toxicity Aspiration hazard





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SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -





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International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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