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2.0	09/12/2022	Date of first issue: 10/19/2021	09/12/2022
2.0	03/12/2022	Date of mist 1350c. 10/15/2021	05/12/2022

## **SECTION 1. IDENTIFICATION**

- Product name : THERMOYLE 46P
- Article-No. : 340213

#### 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 responsible for the SDS	:	mcm@us.kluber.com Material Compliance Management
Emergency telephone number	:	+1-517-545-7070 NCEC
Recommended use of the cl Recommended use	hen :	nical and restrictions on use Lubricating oil

## Restrictions on use : Restricted to professional users.

## **SECTION 2. HAZARDS IDENTIFICATION**

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

Reproductive toxicity	: Category 2	
GHS label elements Hazard pictograms		
Signal word	: Warning	



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Hazaro	d statements	: Suspected of damaging fertility.	
Precau	utionary statements	<ul> <li>Prevention:</li> <li>Obtain special instructions befo</li> <li>Do not handle until all safety prounderstood.</li> <li>Wear protective gloves/ protection</li> </ul>	ecautions have been read and
		<b>Response:</b> IF exposed or concerned: Get n	nedical advice/ attention.
		<b>Storage:</b> Store locked up.	
		Disposal:	
		Dispose of contents/ container t plant.	to an approved waste disposal

## Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance /	Mixture	:	Mixture

Chemical nature : Mineral oil.

#### Components

Chemical name	CAS-No.	Concentration (% w/w)				
Distillates (petroleum), hydrotreated	64742-54-7	Trade secret (>= 80 - <= 100)				
heavy paraffinic						
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 withheld 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 breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	:	Remove contaminated clothing. If irritation develops, get





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		-	nedical attention. n case of contact, immediately flue	sh skin with plenty of water.
In case of eye contact		f	Rinse immediately with plenty of w for at least 10 minutes. f eye irritation persists, consult a s	· · · ·
lf swa	If swallowed		Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.	
	important symptoms effects, both acute and red		No information available. None known.	
Note	s to physician	: 1	No information available.	

## **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.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use personal protective equipment. 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	:	Contain spillage, and then collect with non-combustible





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conta	inment and cleaning u	ıp	absorbent material, (e.g. sand, ea vermiculite) and place in containe local / national regulations (see s	er for disposal according to
SECTION	7. HANDLING AND S	STOR	AGE	
Advic	e on safe handling	:	For personal protection see section Smoking, eating and drinking sho application area. Wash hands and face before breach handling the product. Do not get in eyes or mouth or or Do not get on skin or clothing.	ould be prohibited in the aks and immediately after
Cond	itions for safe storage	:	Store in original container. Keep container closed when not Keep in a dry, cool and well-venti Containers which are opened mu kept upright to prevent leakage. Store in accordance with the part Keep in properly labelled contain	ilated place. Ist be carefully resealed and icular national regulations.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	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.





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Filter type		:	Filter type A-P	
Ma Br	protection aterial eak through time rotective 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 t type of glove and therefore has to be measured for each case.	
Eye p	protection	:	Safety glasses with side-shields	
Skin a	and body protection	:	Choose body protection in relation concentration and amount of dang the specific work-place.	
Prote	ctive measures	:	The type of protective equipment to the concentration and amount of at the specific workplace.	
Hygie	ene measures	:	Wash face, hands and any expos handling.	ed skin thoroughly after

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	colourless
Odour	:	mild
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	>= 365 °F / 185 °C





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			Method: open cup	
Evap	poration rate	:	No data available	
Flam	Flammability (solid, gas)		Not applicable	
Self-	ignition	:	No data available	
	Upper explosion limit / Upper flammability limit		No data available	
	er explosion limit / Lower mability limit	· :	No data available	
Vapo	our pressure	:	< 0.001 hPa (68 °F / 20 °C)	
Rela	Relative vapour density		No data available	
Rela	tive density	:	0.863 (68 °F / 20 °C) Reference substance: Water The value is calculated	
Bulk	density	:	No data available	
	bility(ies) Vater solubility	:	insoluble	
S	Solubility in other solvents	<b>3</b> :	No data available	
	ition coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Deco	omposition temperature	:	No data available	
	osity ⁄iscosity, dynamic	:	No data available	
V	iscosity, kinematic	:	42.7 mm2/s (104 °F / 40 °C)	
Expl	osive properties	:	Not explosive	
Oxid	lizing properties	:	No data available	
Subl	limation point	:	No data available	

## SECTION 10. STABILITY AND REACTIVITY





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Reac	tivity	:	No hazards to be specially mentic	pned.
Chemical stability		:	Stable under normal conditions.	
Possibility of hazardous reactions		:	No dangerous reaction known une	der conditions of normal use.
Cond	Conditions to avoid		No conditions to be specially men	tioned.
Incon	Incompatible materials		No materials to be especially mer	ntioned.
Haza produ	rdous decomposition ucts	:	No decomposition if stored and ap	oplied 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.				
Acute dermal toxicity	:	Remarks: This information is not available.				
Components:						
Distillates (petroleum), hydrof	tre	eated heavy paraffinic:				
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes				
Acute inhalation toxicity	:	LC50 (Rat): > 5.53 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity				
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402				
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:						
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401				
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal				





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		toxicity	
		toricity	
Skin	corrosion/irritation		
Prod	uct:		
Rema	arks	: This information is not available.	
<u>Com</u>	ponents:		
Disti	llates (petroleum),	hydrotreated heavy paraffinic:	
Spec	ies	: Rabbit	
Asse	ssment	: No skin irritation	
Meth	od	: OECD Test Guideline 404	
Resu	ilt	: No skin irritation	
GLP		: yes	
Benz	enamine, N-pheny	-, reaction products with 2,4,4-trimethylp	entene:
Spec	ies	: Rabbit	
•	ssment	: No skin irritation	
Meth		: OECD Test Guideline 404	
Resu		: No skin irritation	
<u>Prod</u> Rema		: This information is not available.	
Com	ponents:		
	u //	hydrotreated heavy paraffinic:	
Spec		: Rabbit	
Resu		: No eye irritation	
	ssment	: No eye irritation : OECD Test Guideline 405	
Meth GLP	od	: yes	
Benz	enamine N-nhenvl	-, reaction products with 2,4,4-trimethylp	entene.
Spec		: Rabbit	
Resu		: No eye irritation	
	ssment	: No eye irritation	
Meth		: OECD Test Guideline 405	
Resp	piratory or skin sen	sitisation	
Prod			
Rema	arks	: This information is not available.	
			a brand of





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## Components:

Distillates (petroleum), hydrotreated heavy paraffinic:				
Species	: Guinea pig			
Assessment	: Does not cause skin sensitisation.			
Method	: OECD Test Guideline 406			
Result	: Does not cause skin sensitisation.			
GLP	: yes			
Benzenamine	e, 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 mu	utagenicity			
Product:				
Genotoxicity in	n vitro : Remarks: No data available			
Genotoxicity in vivo : Remarks: No data available				
Carcinogenic	city			
Product:				
Remarks	: No data available			
Components:				
	etroleum), hydrotreated heavy paraffinic:			
Carcinogenicit Assessment	ity - : Not classifiable as a human carcinogen.			
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.			
IARC OSHA	No component of this product present at levels greater than or equal to on OSHA's list of regulated carcinogens.	o 0.1% is		
NTP	<b>NTP</b> No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
Reproductive	e toxicity			
Product:				

<u>I Toddot.</u>		
Effects on fertility	:	Remarks: No data available
Effects on foetal	:	Remarks: No data available





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devel	opment		
<u>Com</u>	ponents:		
	lates (petroleum), ł oductive toxicity -	nydrotreated heavy paraffinic: : - Fertility -	
Asse	ssment	No toxicity to reproduction	
Benz	enamine, N-phenyl	-, reaction products with 2,4,4-trimeth	ylpentene:
	oductive toxicity -	: - Fertility -	
Asse	ssment	Some evidence of adverse effe fertility, based on animal experi	
Repe	ated dose toxicity		
Prod	uct:		
Rema		: This information is not available	9.
Aspii	ration toxicity		
Prod	uct:		
This i	nformation is not ava	ailable.	
<u>Com</u>	ponents:		
	lates (petroleum), h spiration toxicity class	nydrotreated heavy paraffinic: sification	
Furth	er information		
Prod	uct:		
	arks	: Information given is based on d the toxicology of similar produc	lata on the components and
Rema			
	12. ECOLOGICAL	NFORMATION	
CTION	12. ECOLOGICAL	NFORMATION	
CTION	oxicity	NFORMATION	

Toxicity to daphnia and other	:	
aquatic invertebrates		Remarks: No data available





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Toxici plants	ty to algae/aquatic	:	Remarks: No data available	
Toxici	ty to microorganisms	:	Remarks: No data available	
<u>Comp</u>	oonents:			
Distill	lates (petroleum), hyd	rotre	eated heavy paraffinic:	
Toxici	ty to fish	:	LC50 (Pimephales promelas (fath Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
	ty to daphnia and other ic invertebrates	• :	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 20 GLP: yes	
aquati	ty to daphnia and other ic invertebrates nic toxicity)	• :	NOEC (Daphnia magna (Water fle Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 21 GLP: yes	
Benze	enamine, N-phenyl-, ro	eacti	on products with 2,4,4-trimethyl	pentene:
Toxici	ty to fish	:	LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20	-
	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	





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## Persistence and degradability

<u>Product:</u> Biodegradability	:	Remarks: No data available			
Physico-chemical removability	:	Remarks: No data available			
Components:					
Distillates (petroleum), hydro	otro	eated heavy paraffinic:			
Biodegradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 3 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes			
Benzenamine, N-phenyl-, rea	cti	ion products with 2,4,4-trimethylpentene:			
Biodegradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 301B GLP: yes			
Bioaccumulative potential					
Product:					
Bioaccumulation	:	Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).			
<u>Components:</u>					

#### Components:

Distillates (petroleum), hydrotreated heavy paraffinic: Partition coefficient: n- : log Pow: > 2 octanol/water

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



# SAFETY DATA SHEET



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	RMOTLE 46P			
ersio D	on Revision Date: 09/12/2022		e of last issue: 07/15/2022 e of first issue: 10/19/2021	Print Date: 09/12/2022
	Partition coefficient: n- octanol/water	:	log Pow: > 5	
N	Mobility in soil			
E	Product:			
Ν	Aobility	:	Remarks: No data available	
	Distribution among environmental compartments	: S	Remarks: No data available	
C	Other adverse effects			
E	Product:			
C	Dzone-Depletion Potential	:	Regulation: 40 CFR Protection of Protection of Stratospheric Ozone Substances Remarks: This product neither con manufactured with a Class I or Cla U.S. Clean Air Act Section 602 (4 B).	e - CAA Section 602 Class I ntains, nor was ass II ODS as defined by th
	Additional ecological	:	No information on ecology is avail	able.

Results of PBT and vPvB	:	Non-classified vPvB substance Non-classified PBT substance		
assessment				

## SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	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** 



## SAFETY DATA SHEET



#### - US

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### 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
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.





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#### **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 PO	:	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 -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





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Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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