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SECTION 1. IDENTIFICATION

- Product name : THERMOYLE 460P
- Article-No. : 340421

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 che Recommended use	em :	lical and restrictions on use Lubricating oil

Restrictions on use : Restricted to professional users.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accort 1910.1200)	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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Haza	rd statements	: Suspected of damaging fertility.	
Preca	autionary statements	 Prevention: Obtain special instructions before Do not handle until all safety pred understood. Wear protective gloves/ protective protection. 	autions have been read and
		Response: IF exposed or concerned: Get me	edical advice/ attention.
		Storage: Store locked up.	
		Disposal: Dispose of contents/ container to plant.	an approved waste disposal
Othe	r hazards		

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)
Residual oils (petroleum), solvent-	64742-01-4	Trade secret (>= 80 - <= 100)
refined		
Benzenamine, N-phenyl-, reaction	68411-46-1	Trade secret (>= 1 - < 5)
products with 2,4,4-trimethylpentene		
Actual concentration is withhold on a t	rada agarat	

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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			medical attention. In case of contact, immediately flus	sh skin with plenty of water.
In case of eye contact		:	Rinse immediately with plenty of ware for at least 10 minutes. If eye irritation persists, consult a s	
If swallowed		:	Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.	
Most important symptoms and effects, both acute and delayed		:	No information available. None known.	
Notes	s to physician	:	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	absorbent material, (e.g. sand, earth, overmiculite) and place in container for local / national regulations (see section	disposal according to			
SECTION	7. HANDLING AND S	TORAGE				
Advice on safe handling :		 For personal protection see section 8. Smoking, eating and drinking should be application area. Wash hands and face before breaks a handling the product. Do not get in eyes or mouth or on skin Do not get on skin or clothing. 	be prohibited in the			
Conditions for safe storage :		 Store in original container. Keep container closed when not in use Keep in a dry, cool and well-ventilated Containers which are opened must be kept upright to prevent leakage. Store in accordance with the particular Keep in properly labelled containers. 	l place. carefully resealed and			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

:

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Residual oils (petroleum), solvent-refined	64742-01-4	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

: In the case of vapour formation use a respirator with an





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			approved filter.		
Hand protecti	on				
Remarks		:	Protective gloves The choice of an appro- not only depend on its material but also features and is different from one produc break through time depends amongst ot material, the thickness and the type of gl has to be measured for each case.	on other quality cer to the other. The her things on the	
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 accordin to the concentration and amount of the dangerous substand at the specific workplace.		
Hygiene mea	Hygiene measures : Wash face, hands and any exposed skin thoroughly handling.		thoroughly after		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

liquid
colourless
mild
No data available
Not applicable
No data available
No data available
>= 365 °F / 185 °C Method: open cup





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Eva	aporation rate	:	No data available	
Fla	mmability (solid, gas)	:	Not applicable	
Sel	f-ignition	:	No data available	
	per explosion limit / Upper nmability limit	:	No data available	
	ver explosion limit / Lower nmability limit	:	No data available	
Vap	oour pressure	:	< 0.001 hPa (68 °F / 20 °C)	
Relative vapour density		:	No data available	
Relative density		:	0.890 (68 °F / 20 °C) Reference substance: Water The value is calculated	
Bulk density		:	No data available	
	ubility(ies) Water solubility	:	insoluble	
	Solubility in other solvents	3 :	No data available	
	rtition coefficient: n- anol/water	:	No data available	
Aut	to-ignition temperature	:	No data available	
Deo	composition temperature	:	No data available	
	cosity Viscosity, dynamic	:	No data available	
,	Viscosity, kinematic	:	460 mm2/s (104 °F / 40 °C)	
Exp	plosive properties	-	Not explosive	
Oxi	idizing properties	:	No data available	
Sub	olimation point	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No hazards to be specially mentioned.





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Chen	nical stability	:	Stable under normal conditions.	
Possibility of hazardous reactions		:	No dangerous reaction known un	der conditions of normal use.
Conditions to avoid		:	No conditions to be specially mer	ntioned.
Incon	Incompatible materials		: No materials to be especially mentioned.	
Hazardous decomposition products		:	No decomposition if stored and a	pplied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

	Product:	
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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:	
Residual oils (petroleum), solvent-refined:	
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes	

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 toxicity

Skin corrosion/irritation

Product:

Remarks : 1	This information is not available.
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Components:

Residual oils (petroleum), solvent-refined:				
:	Rabbit			
:	No skin irritation			
:	No skin irritation			
	:			

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

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

Serious eye damage/eye irritation

Product:

Remarks

: This information is not available.

Components:

Residual oils (petroleum), solvent-refined:

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation

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

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Components:

Residual oils (petroleum), solvent-refined:

Species	:	Guinea pig
Assessment	:	Did not cause sensitisation on laboratory animals.
Result	:	Did not cause sensitisation on laboratory animals.

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





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Result	t		:	Did not cause sensitisation on lab	oratory animals.
•					
		agenicity			
Produ					
Genot	oxicity in	vitro	:	Remarks: No data available	
Genot	oxicity in	vivo	:	Remarks: No data available	
Carcir	nogenici	ty			
<u>Produ</u>	<u>ict:</u>				
Rema	rks		:	No data available	
IARC				this product present at levels grea able, possible or confirmed human	
IARC					
OSHA	N			this product present at levels grea regulated carcinogens.	ter than or equal to 0.1% is
NTP				this product present at levels grea own or anticipated carcinogen by N	
Repro	oductive	toxicity			
<u>Produ</u>	ict:				
Effects	s on fertil	ity	:	Remarks: No data available	
	s on foeta opment	al	:	Remarks: No data available	
<u>Comp</u>	onents:				
Benze	enamine,	N-phenyl-, r	eacti	on products with 2,4,4-trimethyl	pentene:
	ductive to	oxicity -	:	- Fertility -	
Asses	sment			Some evidence of adverse effects fertility, based on animal experime	
Repea	ated dos	e toxicity			
Produ	<u>ict:</u>				
Rema	rks		:	This information is not available.	
Aspira	ation tox	icity			
Produ	<u>ict:</u>				
This ir	nformatio	n is not availa	able.		
					a brand of

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Further information

Product:

Remarks

: Information given is based on data on the components and the toxicology of similar products.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	
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Product:

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

1

Toxicity to microorganisms : Remarks: No data available

Components:

Residual oils (petroleum), solvent-refined:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202

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

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): > 100 mg/l
	Exposure time: 96 h
	Test Type: static test
	Method: OECD Test Guideline 203





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	ty to daphnia and othe ic invertebrates	er :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	,,, C
Toxici plants	ty to algae/aquatic	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	
Persis	stence and degradat	oility		
<u>Produ</u>	<u>ict:</u>			
Biode	gradability	:	Remarks: No data available	
	co-chemical /ability	:	Remarks: No data available	
<u>Comp</u>	oonents:			
Resid	lual oils (petroleum),	, solve	ent-refined:	
Biode	gradability	:	Result: Not rapidly biodegradable	
Benze	enamine, N-phenyl-,	reacti	on products with 2,4,4-trimethylp	pentene:
Biode	gradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 1 % Exposure time: 28 d Method: OECD Test Guideline 301 GLP: yes	IB
Bioac	cumulative potentia	I		
<u>Produ</u>	<u>ict:</u>			
Bioac	cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substanc persistent and very bioaccumulatin	d toxic (PBT). e considered to be very
Comp	oonents:			

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



SAFETY DATA SHEET



- US

THERMOYLE 460P

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	ion coefficient: n- ol/water	:	log Pow: > 5	
Mobi	lity in soil			
<u>Prod</u> Mobil		:	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 En Protection of Stratospheric Ozone - (Substances Remarks: This product neither conta manufactured with a Class I or Class U.S. Clean Air Act Section 602 (40 C B).	CAA Section 602 Class I ins, nor was II ODS as defined by the
	ional ecological nation	:	No information on ecology is available	le.

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

UNRTDG Not regulated as a dangerous good IATA-DGR

Not regulated as a dangerous good

IMDG-Code





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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.

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 P0 / TWA

OSHA Z-1 / TWA

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OSH	A Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1
ACGI	IH / TWA	: 8-hour, time-weighted average	
NIOS	SH REL / TWA	: Time-weighted average concentration workday during a 40-hour workweek	for up to a 10-hour
NIOSH REL / ST		STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday	

:

:

8-hour time weighted average

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

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