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#### **SECTION 1. IDENTIFICATION**

Product name	:	THERMOYLE-100HT
Article-No.	:	340174
Other means of identification	:	No data available
Manufacturer or supplier's c	deta	ails
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	hen	nical and restrictions on use
Recommended use	:	Lubricating oil
Restrictions on use	:	Restricted to professional users.

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### GHS classification in accordance with the Hazardous Products Regulations

		5	
Reproductive toxicity	:	Category 2	
Aspiration hazard	:	Category 1	

#### GHS label elements





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Hazar	d pictograms		
Signal	word	: Danger	
Hazar	d statements	: May be fatal if swallowed and er Suspected of damaging fertility.	nters airways.
Preca	utionary statements	<ul> <li>Prevention:</li> <li>Obtain special instructions befor Wear protective gloves/ protective protection.</li> </ul>	
		<b>Response:</b> IF SWALLOWED: Immediately of Do NOT induce vomiting.	call a POISON CENTER/ docto
		Storage: Store locked up.	
		<b>Disposal:</b> Dispose of contents/ container to plant.	o an approved waste disposal

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Synthetic hydrocarbon oil Mineral oil.

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Dec-1-ene, homopolymer, hydrogenated	Dec-1-ene, homopolymer, hydrogenated	68037-01-4	Trade secret** (>= 80 - <= 100 *)
Benzenamine, N- phenyl-, reaction products with 2,4,4- trimethylpentene	Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpenten e	68411-46-1	Trade secret** (>= 1 - < 5 *)





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\* Actual concentration or concentration range is withheld as a trade secret

\*\* See Section 15 for HMIRA information.

#### **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. If breathing is irregular or stopped, administer artificial respiration. Take off all contaminated clothing immediately. In case of skin contact 1 Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of eye contact Rinse immediately with plenty of water, also under the eyelids, :

		for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	:	Move the victim to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage.
Most important symptoms and effects, both acute and delayed	:	Risk of product entering the lungs on vomiting after ingestion. Health injuries may be delayed. Aspiration may cause pulmonary oedema and pneumonitis.
Notes to physician	:	Treat symptomatically.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.





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	Unsuita media	able extinguishing	:	High volume water jet	
	Hazaro produc	lous combustion ts	:	Carbon oxides Nitrogen oxides (NOx)	
	Furthe	r information	:	Standard procedure for chemical fires.	
	•	I protective equipment fighters	t :	In the event of fire, wear self-contained b Use personal protective equipment. Exposure to decomposition products may health.	0 11

#### 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	<ul> <li>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.</li> </ul>
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Condi	itions for safe storage	<ul> <li>Keep container closed when not in</li> <li>Store in original container.</li> <li>Keep container closed when not in</li> <li>Keep in a dry, cool and well-ventila</li> <li>Containers which are opened mus</li> <li>kept upright to prevent leakage.</li> <li>Store in accordance with the partic</li> <li>Keep in properly labelled container</li> </ul>	i use. ated place. t be carefully resealed and cular national regulations.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Components with workplace control parameters</b> Contains no substances with occupational exposure limit values.			
Engineering measures	:	Handle only in a place equipped with local exhaust (or other appropriate exhaust).	
Personal protective equipm	ent		
Respiratory protection	:	Not required; except in case of aerosol formation.	
Filter type	:	Filter type A-P	
Hand protection Material Break through time Protective index Remarks		Nitrile rubber > 10 min Class 1 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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Aŗ	opearance	:	liquid	
Co	blour	:	colourless	
0	dour	:	mild	
0	dour Threshold	:	No data available	
pł	1	:	Not applicable substance/mixture is non-soluble (in w	vater)
М	elting point/range	:	No data available	
Во	biling point/boiling range	:	No data available	
FI	ash point	:	>= 185 °C	
			Method: open cup	
E١	vaporation rate	:	No data available	
FI	ammability (solid, gas)	:	Not applicable	
Se	elf-ignition	:	No data available	
	oper explosion limit / Upper Immability limit	• :	No data available	
	ower explosion limit / Lower Immability limit	:	No data available	
Va	apour pressure	:	< 0.001 hPa (20 °C)	
R	elative vapour density	:	No data available	
R	elative density	:	0.819 (20 °C) Reference substance: Water The value is calculated	
В	ulk density	:	No data available	
So	blubility(ies) Water solubility	:	insoluble	
	Solubility in other solvents	<b>S</b> :	No data available	





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	tition coefficient: n- anol/water	: No data available	
Auto	o-ignition temperature	: No data available	
Dec	composition temperature	: No data available	
	cosity ⁄iscosity, dynamic	: No data available	
١	viscosity, kinematic	: 14.89 mm2/s ( 40 °C)	
Exp	losive properties	: Not explosive	
Oxio	dizing properties	: No data available	
Sub	limation 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.
Acute dermal toxicity	:	Remarks: This information is not available.





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#### Components:

Dec-1-ene, homopolymer, hydrogenated:			
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 423 GLP: yes	
Acute inhalation toxicity	:	LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity	
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity	
Benzenamine, N-phenyl-, read	cti	ion products with 2,4,4-trimethylpentene:	
		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	:	This information is not available.	
<u>Components:</u>			
Dec-1-ene, homopolymer, hyd	dr	ogenated:	
Species	:	Rabbit	
Assessment	:	No skin irritation	
Method	÷	OECD Test Guideline 404 No skin irritation	
Result GLP	:	yes	
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	





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#### Serious eye damage/eye irritation

#### Product:

Remarks

: This information is not available.

#### **Components:**

#### Dec-1-ene, homopolymer, hydrogenated:

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

#### 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:

Remarks

: This information is not available.

#### **Components:**

#### Dec-1-ene, homopolymer, hydrogenated:

Test Type :	Maximisation Test
Species :	Guinea pig
Assessment :	Does not cause skin sensitisation.
Method :	OECD Test Guideline 406
Result :	Does not cause skin sensitisation.
GLP :	yes

#### 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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#### Components:

#### Dec-1-ene, homopolymer, hydrogenated: Genotoxicity in vitro : Test Type: Ames test Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative GLP: yes Germ cell mutagenicity -Animal testing did not show any mutagenic effects. : Assessment Carcinogenicity Product: : No data available Remarks Components: Dec-1-ene, homopolymer, hydrogenated: Carcinogenicity -: Not classifiable as a human carcinogen. Assessment **Reproductive toxicity** Product: Effects on fertility : Remarks: No data available Effects on foetal Remarks: No data available : development Components: Dec-1-ene, homopolymer, hydrogenated: Reproductive toxicity -: - Fertility -Assessment No toxicity to reproduction - Teratogenicity -Did not show teratogenic effects in animal experiments. Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Reproductive toxicity -: - Fertility -Assessment Some evidence of adverse effects on sexual function and fertility, based on animal experiments. Repeated dose toxicity

Product:





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Remarks

: This information is not available.

#### Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

#### **Components:**

### Dec-1-ene, homopolymer, hydrogenated:

May be fatal if swallowed and enters airways.

#### **Further information**

#### Product:

Remarks

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

### 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:		
Dec-1-ene, homopolymer, hy	/dr	ogenated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes





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rsion )	Revision Date: 2022-09-12		e of last issue: 2021-10-19 e of first issue: 2021-10-19	Print Date: 2022-09-12
	y to daphnia and other c invertebrates	· :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes	
Toxicit plants	y to algae/aquatic	:	ErC50 (Scenedesmus capricornut 1,000 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 207 GLP: yes	
aquatio	y to daphnia and other c invertebrates ic toxicity)	. :	NOEC (Daphnia magna (Water fle Exposure time: 21 d	ea)): 125 mg/l
	<b>namine, N-phenyl-, r</b> o y to fish	eacti :	ton products with 2,4,4-trimethylp LC50 (Danio rerio (zebra fish)): > 7 Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203	100 mg/l
	y to daphnia and other c invertebrates	• :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
Toxicit plants	y to algae/aquatic	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 207	
Persis	tence and degradabi	lity		
<u>Produ</u> Biodeg	<u>ct:</u> ıradability	:	Remarks: No data available	
Physic	o-chemical	:	Remarks: No data available	





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#### **Components:**

Dec-1-ene, homopolymer, hydrogenated:							
	Biodegradability	:	Primary biodegradation Inoculum: activated sludge Result: Not readily biodegradable. Method: OECD Test Guideline 301B				

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

lum: activated sludge it: Not rapidly biodegradable gradation: 1 % sure time: 28 d od: OECD Test Guideline 301B
od: OECD Test Guideline 301B 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).

#### **Components:**

Dec-1-ene, homopolymer, hy Partition coefficient: n- octanol/water	/dr :	ogenated: log Pow: > 6.5 (20 °C)
Benzenamine, N-phenyl-, rea Partition coefficient: n- octanol/water	acti :	on products with 2,4,4-trimethylpentene: log Pow: > 5

#### Mobility in soil

<u>Product:</u> Mobility	:	Remarks: No data available
Distribution among environmental compartments	:	Remarks: No data available





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#### Other adverse effects

#### Product:

Additional ecological	:	No information on ecology is available.
information		

#### **Components:**

#### Dec-1-ene, homopolymer, hydrogenated:

Results of PBT and vPvB : Non-classified PBT substance Non-classified vPvB 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. Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.
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** 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**

**TDG** Not regulated as a dangerous good





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#### Special precautions for user

Not applicable

#### SECTION 15. REGULATORY INFORMATION

NPRI Components

Canadian National Pollutant Release Inventory (NPRI): No component is listed on NPRI.

#### Canadian lists

No substances are subject to a Significant New Activity Notification.

:

#### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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: 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory: TDG - Transportation of Dangerous Goods: 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; WHMIS - Workplace Hazardous Materials Information System





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