

RHT-32

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Version 1.1	Revision Date: 2023-05-11		e of last issue: 2021-10-19 e of first issue: 2021-10-19	Print Date: 2023-05-11
SECTION	1. IDENTIFICATION			
Produ	uct name	:	RHT-32	
Article	e-No.	:	340117	
Other	means of identification	:	No data available	
Manu	ifacturer or supplier's	deta	ails	
Comp	bany 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	
	il address of person Insible for the SDS	:	mcm@us.kluber.com Material Compliance Management	
Emer numb	gency telephone ber	:	+1-517-545-7070 NCEC	
Reco	mmended use of the	chen	nical and restrictions on use	
Reco	mmended use	:	Lubricating oil	
Restr	ictions on use	:	Restricted to professional users.	

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

This chemical is not considered hazardous by the Canadian Hazardous Products Regulations (WHMIS 2015).

Other hazards

None known.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature

: Mineral oil.

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated heavy paraffinic	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	64742-54-7	Trade secret** (>= 30 - < 60 *)
Distillates (petroleum), hydrotreated light paraffinic	Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified	64742-55-8	Trade secret** (>= 30 - < 60 *)

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled	:	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 medical attention. In case of contact, immediately flush skin with plenty of water.
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. Do NOT induce vomiting. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	:	No information available. None known.





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Notes to physician		:	No information available.	
SECT	ION 5. FIREFIGHTING ME	ASU	RES	
S	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	
F	Further information		Standard procedure for chemical fires.	
	Special protective equipment for firefighters		In the event of fire, wear self-contained to Use personal protective equipment. Exposure to decomposition products man health.	0 11

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 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	:	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.
Conditions for safe storage	:	Store in original container.





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		Keep container closed when not in Keep in a dry, cool and well-ventil Containers which are opened mus	ated place.

kept upright to prevent leakage.

Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Components with workplace	•		•	
Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	TWA (Mist)	5 mg/m3	CA AB OEL (2009-04-30)
		STEL (Mist)	10 mg/m3	CA AB OEL (2009-04-30)
		TWAEV (Mist)	5 mg/m3	CA QC OEL (2012-11-28)
		STEV (Mist)	10 mg/m3	CA QC OEL (2012-11-28)
		TWA (Mist)	1 mg/m3	CA BC OEL (2012-04-20)
		TWA (Mist)	1 mg/m3	CA BC OEL (2021-01-04)
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA (Mist)	5 mg/m3	CA AB OEL (2009-04-30)
		STEL (Mist)	10 mg/m3	CA AB OEL (2009-04-30)
		TWAEV (Mist)	5 mg/m3	CA QC OEL (2012-11-28)
		STEV (Mist)	10 mg/m3	CA QC OEL (2012-11-28)
		TWA (Mist)	1 mg/m3	CA BC OEL (2012-04-20)
		TWA (Mist)	1 mg/m3	CA BC OEL (2021-01-04)
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)

Components with workplace control parameters

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : none





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Pers	onal protective equip	nent				
Resp	iratory protection	: Not requir	: Not required; except in case of aerosol formation.			
Fi	lter type	: Filter type	Filter type A-P			
M Bi	Hand protection Material Break through time Protective index		ber			
R	Remarks		For prolonged or repeated contact use protective gloves. Th 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 gla	Safety glasses with side-shields			
Skin	Skin and body protection		Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and the specific work-place.			
Protective measures		to the con	: The type of protective equipment must be selected accord to the concentration and amount of the dangerous substa- at the specific workplace.			
Hygiene measures		: Wash face handling.	e, hands and any expos	ed skin thoroughly after		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance		liquid
Colour	:	colourless
Odour	:	hydrocarbon-like
Odour Threshold	:	No data available
рН	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available





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FI	Flash point		>= 200 °C	
			Method: open cup	
E	vaporation rate	:	No data available	
FI	ammability (solid, gas)	:	Not applicable	
Se	elf-ignition	:	No data available	
	pper explosion limit / Upper ammability limit	· :	No data available	
	ower explosion limit / Lower ammability limit	· :	No data available	
Va	apour pressure	:	< 0.001 hPa (20 °C)	
R	elative vapour density	:	No data available	
R	Relative density		0.853 (20 °C) Reference substance: Water The value is calculated	
В	ulk density	:	No data available	
So	olubility(ies) Water solubility	:	insoluble	
	Solubility in other solvents	s :	No data available	
	Partition coefficient: n- octanol/water		No data available	
A	uto-ignition temperature	:	No data available	
D	ecomposition temperature	:	No data available	
Vi	scosity Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	31.2 mm2/s (40 °C)	
E	Explosive properties		Not explosive	
0	xidizing properties	:	No data available	
S	ublimation point	:	No data available	



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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.
<u>Components:</u>		
Distillates (petroleum), hydro	otr	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
Distillates (petroleum), hydro	otr	eated light paraffinic:
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: yes





2023-05-11 Date of first issue: 2021-10-19 2023-05-1 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 GLP: yes Skin corrosion/irritation : Product: Remarks : Remarks : This information is not available. Components: Distillates (petroleum), hydrotreated heavy paraffinic: Species Species : Result : No skin irritation GLP : Vest : Distillates (petroleum), hydrotreated light paraffinic: Species : Result : No skin irritation GLP : Species : Result : No skin irritation GLP : Species : Species : Result : No skin irritation GLP : Species : No skin irritation GLP : Stopecies :	rsion	Revision Date:	Date of last issue: 2021-10-19	Print Date: 2023-05-11
Exposure time: 4 h Test atmosphere: dust/mist Method: OCD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity Acute dermal toxicity Acute dermal toxicity Exposure time: 4 h Acute dermal toxicity Components: Distillates (petroleum), hydrotreated heavy paraffinic: Species : Rabbit Assessment : : No skin irritation Method : OCCD Test Guideline 402 GLP: yes Skin corrosion/irritation Product: Remarks : This information is not available. Components: Distillates (petroleum), hydrotreated heavy paraffinic: Species : : No skin irritation GLP : : No skin irritation GLP : Serious eye damage/eye irritation Product: : Remarks : Distillates (petroleum), hydrotreated heavy paraffinic: Species		2023-03-11	Date of mist issue. 2021-10-19	2023-05-11
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 GLP: yes Skin corrosion/irritation Product: Remarks Product: Remarks Remarks : Distillates (petroleum), hydrotreated heavy paraffinic: Species : Result : No skin irritation Method : OECD Test Guideline 404 Result : Result : No skin irritation GLP : Species : Result : No skin irritation GLP : Species : Result : Assessment : No skin irritation Result : Assessment : No skin irritation GLP : Serious eye damage/eye irritation Product: Remarks : Distillates (petroleum), hydrotreated h	Acute	e inhalation toxicity		
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Acute dermal toxicity :: LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Skin corrosion/irritation Product: Remarks :: This information is not available. Components: Distillates (petroleum), hydrotreated heavy paraffinic: Species :: Rabbit Assessment :: No skin irritation Method :: OECD Test Guideline 404 Result :: No skin irritation GLP :: yes Distillates (petroleum), hydrotreated light paraffinic: Species :: Rabbit Assessment :: No skin irritation GLP :: yes Distillates (petroleum), hydrotreated light paraffinic: Species :: No skin irritation Result :: No skin irritation GLP :: yes Serious eye damage/eye irritation GLP :: yes Serious eye damage/eye irritation GLP :: No skin irritation is not available. Components: Distillates (petroleum), hydrotreated heavy paraffinic: Species :: Rabbit Assessment :: No skin irritation Result :: No eye irritation GLP :: yes Distillates (petroleum), hydrotreated heavy paraffinic: Species :: Rabbit Assessment :: No eye irritation Assessment :: No eye irritation Assessment :: No eye irritation Method :: OECD Test Guideline 405 GLP :: yes Distillates (petroleum), hydrotreated light paraffinic: Species :: yes				
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	sure time ssment od	 48 h No eye irritation OECD Test Guideline 405 yes 	
Resp	iratory or skin sen	sitisation	
<u>Produ</u> Rema		: This information is not availab	le.
Com	oonents:		
Distil	lates (petroleum), l	ydrotreated heavy paraffinic:	
Speci Asses Metho Resul GLP	ssment od	 Guinea pig Does not cause skin sensitisa OECD Test Guideline 406 Does not cause skin sensitisa yes 	
Distil	lates (petroleum), l	ydrotreated light paraffinic:	
Test Speci Asses Metho Resul GLP	es ssment od	 Buehler Test Guinea pig Did not cause sensitisation on OECD Test Guideline 406 Did not cause sensitisation on no 	-
Germ	cell mutagenicity		
<u>Produ</u> Geno	uct: toxicity in vitro	: Remarks: No data available	
	toxicity in vivo	: Remarks: No data available	
<u>Com</u>	oonents:		
Distil	lates (petroleum), l	ydrotreated light paraffinic:	
	cell mutagenicity - ssment	: Tests on bacterial or mammal mutagenic effects.	ian cell cultures did not show
Carci	nogenicity		
Prod			
Rema	arks	: No data available	





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Components: Distillates (petroleum), hydrotreated heavy paraffinic: Carcinogenicity -: Not classifiable as a human carcinogen. Assessment Distillates (petroleum), hydrotreated light paraffinic: Carcinogenicity -: No evidence of carcinogenicity in animal studies. Assessment **Reproductive toxicity** Product: Effects on fertility : Remarks: No data available Effects on foetal Remarks: No data available : development Components: Distillates (petroleum), hydrotreated heavy paraffinic: Reproductive toxicity -: - Fertility -Assessment No toxicity to reproduction Distillates (petroleum), hydrotreated light paraffinic: Reproductive toxicity -- Fertility -: Assessment No toxicity to reproduction - Teratogenicity -No effects on or via lactation STOT - single exposure Product: No data available Remarks • **STOT - repeated exposure** Product: Remarks No data available 5 **Repeated dose toxicity** Product: Remarks : This information is not available.





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Aspiration toxicity

Product:

This information is not available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

No aspiration toxicity classification

Distillates (petroleum), hydrotreated light paraffinic:

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

Product:

Toxicity to fish

Remarks: No data available

Remarks: No data available

Toxicity to daphnia and other	:
aquatic invertebrates	

Toxicity to algae/aquatic plants	:	Remarks: No data available

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Toxicity to microorganisms :		Remarks: No data available
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Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
	Exposure time: 96 h
	Test Type: static test
	Method: OECD Test Guideline 203
	GLP: yes



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	ity to daphnia and othe tic invertebrates	er :	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 20 GLP: yes	
aquat	ity to daphnia and othe tic invertebrates onic toxicity)	er :	NOEC (Daphnia magna (Water fl Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 2 ⁴ GLP: yes	
Persi	istence and degradal	oility		
Prod	uct:			
Biode	egradability	:	Remarks: No data available	
	ico-chemical vability	:	Remarks: No data available	
<u>Com</u>	ponents:			
Distil	llates (petroleum), hy	drotr	eated heavy paraffinic:	
Biode	egradability	:	aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 3 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes	
	llates (petroleum), hy egradability	arotr :	eated light paraffinic: Result: not rapidly degradable Biodegradation: 31 % Exposure time: 28 d	
Bioa	ccumulative potentia	I		
Prod	uct:			
	ccumulation	:	Remarks: This mixture contains r be persistent, bioaccumulating ar This mixture contains no substan	nd toxic (PBT).
			12 / 16	a brand of





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		persistent and very bioaccu	umulating (vPvB).
<u>Comp</u>	oonents:		
Distil	lates (petroleum), h	drotreated heavy paraffinic:	
	ion coefficient: n- ol/water	: log Pow: > 2	
Distil	lates (petroleum), h	drotreated light paraffinic:	
	ion coefficient: n- ol/water	: Pow: > 6 Remarks: Information give similar substances.	n is based on data obtained from
Mobil	lity in soil		
<u>Produ</u>	uct:		
Mobili	ity	: Remarks: No data available	е
	oution among onmental compartme	: Remarks: No data availabl	е
Other	r adverse effects		
<u>Produ</u>	uct:		
Additi inform	onal ecological nation	: No information on ecology	is available.
Comp	oonents:		
Distil	lates (petroleum), h	drotreated heavy paraffinic:	
	ts of PBT and vPvB ssment	: Non-classified vPvB substa	ance Non-classified PBT substance
Distil	lates (petroleum), h	drotreated light paraffinic:	
Resul	ts of PBT and vPvB		nce Non-classified vPvB substance

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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





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Contaminated packaging		: Packaging that is not properly em the unused product. Dispose of waste product or used 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

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH		USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA CA AB OEL / TWA		8-hour, time-weighted average 8-hour Occupational exposure limit





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CA AB OEL / STEL CA BC OEL / TWA	 15-minute occupational exposure limit 8-hour time weighted average
CA QC OEL / TWAEV CA QC OEL / STEV	Time-weighted average exposure valueShort-term exposure value

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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