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#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Klübersynth GE 14-151 (H)
Article-No.	:	012364
Manufacturer or supplier's d	eta	ils
Company name of supplier	:	Klüber Lubrication München GmbH & Co. KG Geisenhausenerstr. 7 81379 München Deutschland Tel.: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com
E-mail address of person responsible for the SDS	:	mcm@klueber.com
National contact	:	
Emergency telephone number	:	+44 1235 239671 NCEC
		+49 89 7876 700
Recommended use of the ch Recommended use	em :	_
Restrictions on use	:	Restricted to professional users.

#### 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

Not a hazardous substance or mixture.

#### Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature

1/17

: Synthetic hydrocarbon oil





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ester oil aluminium complex soap solid lubricant

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
disodium sebacate	17265-14-4	>= 2.5 - < 10
White mineral oil (petroleum)	8042-47-5	>= 1 - < 10
Molybdenum, bis(dibutylcarbamodithioato)di-µ- oxodioxodi-, sulfurized	68412-26-0	>= 1 - < 2.5

#### 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. Wash off with soap and 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 without medical advice.
Most important symptoms and effects, both acute and delayed	:	None known. No symptoms known or expected.
Notes to physician	:	Treat symptomatically.

#### **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) Sulphur oxides





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				Oxides of phosphorus Metal oxides		
	Specific nethod	extinguishing s	:	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.			

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Do not breathe vapours, aerosols. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Pick up and transfer to properly labelled containers.

#### 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. 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.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

	Components	CAS-No.	Value type	Control	Basis
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		(Form of exposure)	parameters / Permissible concentration	
(benzoato- O,O')hydroxy(octadecanoato- O,O')aluminium	54326-11-3	TWA (Inhalable particulate matter)	10 mg/m3	ACGIH (2018-03-20)
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH (2018-03-20)
White mineral oil (petroleum)	8042-47-5	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)

Engineering measures	:	none
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#### Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type P
Hand protection Material Break through time Protective index	:	Nitrile rubber > 10 min Class 1
Remarks	:	For prolonged or repeated contact use 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
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	:	concentration and amount of dangerous substances, and to

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: paste





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	Colour		:	yellow	
	Odour		:	characteristic	
	Odour <sup>-</sup>	Threshold	:	No data available	
	рН		:	Not applicable	
	Melting	point/range	:	No data available	
	Boiling	point/boiling range	:	No data available	
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	No data available	
	Flamm	ability (solid, gas)	:	Combustible Solids	
	Self-igr	nition	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	< 0.001 hPa (20 °C)	
	Relativ	e vapour density	:	No data available	
	Relativ	e density	:	0.93 (20 °C) Reference substance: Water The value is calculated	
	Density	/	:	0.93 g/cm3 (20 °C)	
	Bulk de	ensity	:	No data available	
	Solubili Wat	ity(ies) er solubility	:	insoluble	
	Solu	ubility in other solvents	:	No data available	
	Partitio	n coefficient: n-	:	No data available	





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ootoo	allwatar			
octan	ol/water			
Auto-	ignition temperature	:	No data available	
Deco	mposition temperature	:	No data available	
Visco				
VI	scosity, dynamic	:	No data available	
Vi	scosity, kinematic	:	Not applicable	
Explo	sive properties	:	Not explosive	
Oxidi	zing properties	:	No data available	
Subli	mation point	:	No data available	
Partic	cle size	:	Not applicable	

#### **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 t	to be especially mentioned.
Hazardous decomposition products	No decompos	ition if stored and applied as directed.

#### **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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Com	oonents:			
hoeih	lium sebacate:			
	oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: no	
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixtu toxicity	ure has no acute derma
White	e mineral oil (petroleu	um):		
	oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixtu inhalation toxicity	ure has no acute
Acute	dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixtu toxicity	ure has no acute derma
Molył	odenum bis(dibutyla	arhan	nodithioato)di-µ-oxodioxodi-, sulfu	rized
-	oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420 GLP: yes Assessment: The substance or mixtu toxicity	
Acute	inhalation toxicity	:	: LC50 (Rat): > 34.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
Acute	dermal toxicity	:	LD50 (Rabbit): > 10,000 mg/kg	
Skin (	corrosion/irritation			
<u>Produ</u> Rema		:	This information is not available.	





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#### **Components:**

#### disodium sebacate:

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

#### White mineral oil (petroleum):

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

#### Molybdenum, bis(dibutylcarbamodithioato)di-µ-oxodioxodi-, sulfurized:

: No skin irritation

Method	:	OECD Test Guideline 439
Result	:	No skin irritation
GLP	:	yes

#### Serious eye damage/eye irritation

#### Product:

Remarks : This information is not available.

#### **Components:**

#### disodium sebacate:

Species	:	Rabbit
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 437
Result	:	Irritating to eyes.
GLP	:	yes

#### White mineral oil (petroleum):

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

#### Molybdenum, bis(dibutylcarbamodithioato)di-µ-oxodioxodi-, sulfurized:

Species

: Rabbit





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Asses Metho Resul GLP		:	No eye irritation OECD Test Guideline 405 No eye irritation yes	
Resp	iratory or skin sensit	isatio	n	
<u>Prod</u> Rema		:	This information is not available.	
<u>Com</u>	ponents:			
disod	lium sebacate:			
Speci Asses Resu	ssment	:	Guinea pig Did not cause sensitisation on labo Did not cause sensitisation on labo	
White	e mineral oil (petroleu	um):		
Test Speci Asses Metho Resu GLP	ies ssment od		Buehler Test Guinea pig Does not cause skin sensitisation. OECD Test Guideline 406 Does not cause skin sensitisation. yes	
Moly	bdenum, bis(dibutylc	arban	nodithioato)di-µ-oxodioxodi-, sul	furized:
Speci Asses Metho Resu GLP	ssment od		Mouse Did not cause sensitisation on labo OECD Test Guideline 429 Did not cause sensitisation on labo yes	
Germ	n cell mutagenicity			
Prod	uct:			
Geno	toxicity in vitro	:	Remarks: No data available	
Geno	toxicity in vivo	:	Remarks: No data available	
<u>Com</u>	ponents:			
Germ	<b>lium sebacate:</b> a cell mutagenicity - ssment	:	Tests on bacterial or mammalian c mutagenic effects.	ell cultures did not show
White	e mineral oil (petroleu	um):		
Germ	cell mutagenicity -	:	Tests on bacterial or mammalian of	ell cultures did not show
				a brand of





<b>Klähere</b>			
	ynth GE 14-151 (		
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Asses	ssment	mutagenic effects.	
•		carbamodithioato)di-µ-oxodioxodi-, s	
	cell mutagenicity - ssment	: Tests on bacterial or mammaliar mutagenic effects.	n cell cultures did not show
Carci	nogenicity		
Produ	uct:		
Rema	arks	: No data available	
Comp	oonents:		
White	e mineral oil (petrole	um):	
	nogenicity - ssment	: No evidence of carcinogenicity in	n animal studies.
Repro	oductive toxicity		
Produ	uct:		
Effect	s on fertility	: Remarks: No data available	
	s on foetal opment	: Remarks: No data available	
Com	oonents:		
disod	lium sebacate:		
	oductive toxicity -	: - Fertility -	
Asses	ssment	No toxicity to reproduction - Teratogenicity -	
		No effects on or via lactation	
White	e mineral oil (petrole	um):	
	oductive toxicity -	: - Fertility -	
A3565	Assessment	No toxicity to reproduction - Teratogenicity -	
		No effects on or via lactation	
Molyl	odenum, bis(dibuty)	carbamodithioato)di-µ-oxodioxodi-, s	ulfurized:
	Reproductive toxicity - : Assessment	: - Fertility -	
A5585	Someni	No toxicity to reproduction	



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#### Klübersynth GE 14-151 (H) Version Date of last issue: -Print Date: **Revision Date:** Date of first issue: 24.05.2024 24.05.2024 24.05.2024 STOT - single exposure Product: No data available Remarks : **Components:** White mineral oil (petroleum): Assessment ÷ The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure Product: Remarks No data available 5 **Components:** White mineral oil (petroleum): Assessment The substance or mixture is not classified as specific target organ toxicant, repeated exposure. **Repeated dose toxicity** Product: Remarks This information is not available. : Aspiration toxicity Product: This information is not available. **Components:** disodium sebacate: No aspiration toxicity classification White mineral oil (petroleum): May be fatal if swallowed and enters airways. Molybdenum, bis(dibutylcarbamodithioato)di-µ-oxodioxodi-, sulfurized: No aspiration toxicity classification **Further information**

**Product:** 





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Rema	arks	:	Information given is based on data on the toxicology of similar products.	on the components and
ECOL	OGICAL INFORMATION	N		
Ecoto	oxicity			
<u>Produ</u> Toxic	u <u>ct:</u> ity to fish	÷	Remarks: No data available	
	ity to daphnia and other ic invertebrates	:	Remarks: No data available	
Toxic plants	ity to algae/aquatic	:	Remarks: No data available	
Toxic	ity to microorganisms	:	Remarks: No data available	
<u>Com</u>	oonents:			
disod	lium sebacate:			
Toxic	ity to fish	:	LC50 (Danio rerio (zebra fish)): > 10 Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes	00 mg/l
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea) Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes	): > 100 mg/l
Toxic plants	ity to algae/aquatic	:	EL50 ( Skeletonema costatum (mar Exposure time: 72 h Test Type: static test Method: ISO 10253 GLP: yes	ine diatom)): 38.7 mg/l
White	e mineral oil (petroleun	n):		
Toxic	ity to fish	:	LC50 (Oncorhynchus mykiss (rainbe Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203	ow trout)): > 100 mg/l
	ity to daphnia and other ic invertebrates	:	LC50 (Daphnia magna (Water flea)) Exposure time: 48 h Method: OECD Test Guideline 202	): > 100 mg/l





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Toxici plants	ty to algae/aquatic	:	NOEC ( Pseudokirchneriella subca mg/l Exposure time: 72 h Method: OECD Test Guideline 201	
Toxici	ty to microorganisms	:	LC50 (Bacteria): > 1,000 mg/l Exposure time: 40 h Test Type: Growth inhibition	
Toxicit toxicity	ty to fish (Chronic y)	:	NOEC: > 100 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (ra Remarks: The value is given based using OECD Toolbox, DEREK, VE (CAESAR models), etc.	d on a SAR/AAR approach
aquati	ty to daphnia and other ic invertebrates nic toxicity)	:	NOEC: >= 1,000 mg/l Exposure time: 21 d Species: Daphnia magna (Water fl Remarks: The value is given based using OECD Toolbox, DEREK, VE (CAESAR models), etc.	d on a SAR/AAR approach
Molvh	odenum bis(dibutvlcar	bai	nodithioato)di-µ-oxodioxodi-, suli	urized.
Toxici	ty to daphnia and other ic invertebrates		EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: semi-static test	
Toxici plants	ty to algae/aquatic	:	EC50 ( Pseudokirchneriella subcar Exposure time: 72 h Test Type: static test	pitata (algae)): > 100 mg/l
Ecoto	xicology Assessment			
Chron	ic aquatic toxicity	:	May cause long lasting harmful effort	ects to aquatic life.
Persis	stence and degradabili	ity		
<u>Produ</u> Bioder	<b>ict:</b> gradability		Remarks: No data available	
	co-chemical	•	Remarks: No data available	
<u>Comp</u>	oonents:			
disod	ium sebacate:			
Biode	gradability	:	Result: Biodegradable Biodegradation: 89 %	





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			Exposure time: 28 d		
White	mineral oil (petroleun	n):			
Biodeç	gradability	:	Biodegradation: 31 % Exposure time: 28 d		
Molyb	denum, bis(dibutylca	rbar	nodithioato)di-µ-oxodioxodi-, sulfurized	:	
-	gradability	:	Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301 GLP: yes		
Bioac	cumulative potential				
<u>Produ</u>	<u>ct:</u>				
Bioaco	cumulation	:	Remarks: No data available		
Comp	onents:				
disodi	ium sebacate:				
	on coefficient: n- ol/water	:	log Pow: -4.9 (20 °C) pH: 7.8		
White	mineral oil (petroleun	n):			
Partitic	on coefficient: n- pl/water		log Pow: > 6		
Molyb	denum, bis(dibutylca	rbar	nodithioato)di-µ-oxodioxodi-, sulfurized	:	
	on coefficient: n- ol/water	:	log Pow: 6.24 - 7.28		
Mobili	ty in soil				
<u>Produ</u>	<u>ct:</u>				
Mobilit	ÿ	:	Remarks: No data available		
	ution among nmental compartments	:	Remarks: No data available		
Other	adverse effects				
Produ	<u>ct:</u>				
Additic inform	onal ecological ation	:	No information on ecology is available.		





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#### White mineral oil (petroleum):

Results of PBT and vPvB	:	Substance is not persistent, bioaccumulative, and toxic (PBT).
assessment		

#### **13. DISPOSAL CONSIDERATIONS**

Dis	spo	sal	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.

#### **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 IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

Not applicable

#### **15. REGULATORY INFORMATION**

## Safety, health and environmental regulations/legislation specific for the substance or mixture

Montreal Protocol	:	Not applicable
Rotterdam Convention (Prior Informed Consent)	:	Not applicable
Stockholm Convention (Persistent Organic Pollutants)	:	Not applicable





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

# Full text of other abbreviations USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

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 - Verv Persistent and Verv Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

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