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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Klübersynth GE 14-151 (H)
Article-No.	:	012364
Manufacturer or supplier's de	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)
diagdium achagata	17065 14 4	,,
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 methoc	c extinguishing Is	:	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.
Skin and body protection 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 1	Threshold	:	No data available	
	рН		:	Not applicable	
	Melting	point/range	:	No data available	
	Boiling	point/boiling range	:	No data available	
	Flash p	oint	:	Not applicable	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Combustible Solids	
	Self-ign	ition	:	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)	
	Relative	e vapour density	:	No data available	
	Relative	e density	:	0.93 (20 °C) Reference substance: Water The value is calculated	
	Density		:	0.93 g/cm3 (20 °C)	
	Bulk de	nsity	:	No data available	
	Solubilit Wate	ty(ies) er solubility	:	insoluble	
	Solu	bility in other solvents	:	No data available	
	Partitior	n coefficient: n-	:	No data available	





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ooto	nol/water		
Auto	o-ignition temperature	: No data available	
Dec	omposition temperature	: No data available	
	osity /iscosity, dynamic	: No data available	
V	iscosity, kinematic	: Not applicable	
Expl	osive properties	: Not explosive	
Oxic	lizing properties	: No data available	
Subl	limation point	: No data available	
Part	icle 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	ponents:			
	dium sebacate: e oral toxicity		LD50 (Rat): > 5,000 mg/kg	
Acute			Method: OECD Test Guideline 401 GLP: no	
Acute	e dermal toxicity	:		
			Method: OECD Test Guideline 402 GLP: yes	
			Assessment: The substance or mixtu toxicity	ure has no acute dermal
White	e mineral oil (petroleu	ım):		
Acute	e oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401	
Acute	e 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	ire has no acute
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg	
			Method: OECD Test Guideline 402 Assessment: The substance or mixtu toxicity	ure has no acute dermal
Moly	bdenum, bis(dibutylc	arba	modithioato)di-µ-oxodioxodi-, sulfu	rized:
Acute	e oral toxicity	:	LD50 (Rat): > 2,000 mg/kg	
			Method: OECD Test Guideline 420 GLP: yes	
			Assessment: The substance or mixtu toxicity	ure has no acute oral
Acute	e inhalation toxicity	:	LC50 (Rat): > 34.4 mg/l	
			Exposure time: 4 h Test atmosphere: dust/mist	
Acute	e dermal toxicity	:	LD50 (Rabbit): > 10,000 mg/kg	
Skin	corrosion/irritation			
Prod	uct:			
Rema		:	This information is not available.	





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Components:

disodium sebacate:

Species Assessment	-	Rabbit No skin irritation
Method Result GLP		OECD Test Guideline 404 No skin irritation 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	on	
Produ				
Rema	arks	:	This information is not available.	
<u>Com</u>	oonents:			
disod	lium sebacate:			
Speci		:	Guinea pig	
	ssment	:	Did not cause sensitisation on labo	
Resu	II.	•	Did not cause sensitisation on labo	Statory animals.
White	e mineral oil (petroleu	ım):		
Test		:	Buehler Test	
Speci	es ssment	:	Guinea pig Does not cause skin sensitisation.	
Metho		:	OECD Test Guideline 406	
Resul		÷	Does not cause skin sensitisation.	
GLP		:	yes	
Molvi	bdenum. bis(dibutvlc	arba	modithioato)di-µ-oxodioxodi-, sul	furized:
Speci		:	Mouse	
•	ssment	÷	Did not cause sensitisation on labo	oratory animals.
Metho	bd	:	OECD Test Guideline 429	
Resu	lt	:	Did not cause sensitisation on labor	oratory animals.
GLP		:	yes	
Germ	cell mutagenicity			
Produ	uct:			
Geno	toxicity in vitro	:	Remarks: No data available	
Geno	toxicity in vivo	:	Remarks: No data available	
Com	oonents:			
disod	lium sebacate:			
	cell mutagenicity - ssment	:	Tests on bacterial or mammalian of mutagenic effects.	cell cultures did not show
White	e mineral oil (petroleu	ım):		
Germ	cell mutagenicity -	:	Tests on bacterial or mammalian of	cell cultures did not show
				a brand of





Klähere			
	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:
	oductive toxicity -	: - Fertility -	
A5585	Someni	No toxicity to reproduction	



SAFETY DATA SHEET



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0	24.05.2024	Da	ate of first issue: 24.05.2024	24.05.2024
STOT	- single exposure			
Produ	uct:			
Rema	arks	:	No data available	
Com				
	oonents:			
	e mineral oil (petrole	um):	The substance on white we is not also	
Asses	ssment	:	The substance or mixture is not cla organ toxicant, single exposure.	ssified as specific targe
STOT	- repeated exposur	e		
Produ				
Rema	arks	:	No data available	
Comp	oonents:			
White	e mineral oil (petrole	um):		
	ssment	:	The substance or mixture is not cla	ssified as specific targe
			organ toxicant, repeated exposure.	
Repe	ated dose toxicity			
Produ	uct:			
Rema		:	This information is not available.	
Asnir	ation toxicity			
Produ	-			
	nformation is not avai	lable.		
<u>Comp</u>	oonents:			
disod	lium sebacate:			
No as	piration toxicity class	ificatio	n	
\M/bite	minaral ail (natrala			
	e mineral oil (petrole be fatal if swallowed a	-	ters airways	
may c				
Moly	odenum, bis(dibutyl	carba	modithioato)di-µ-oxodioxodi-, sulf	urized:
No as	piration toxicity class	ificatio	n	
Furth	er information			





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Rema	arks	:	Information given is based on data the toxicology of similar products.	on the components and
ECOL	OGICAL INFORMATION	N		
Ecoto	oxicity			
<u>Produ</u>	uct:			
Toxici	ity to fish	:	Remarks: No data available	
	ity to daphnia and other ic invertebrates	:	Remarks: No data available	
Toxici plants	ity to algae/aquatic	:	Remarks: No data available	
Toxici	ity to microorganisms	:	Remarks: No data available	
Comp	oonents:			
disod	lium sebacate:			
Toxici	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
Toxici 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):		
	ity to fish	:	LC50 (Oncorhynchus mykiss (rainb 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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Toxicit <u>y</u> plants	y to algae/aquatic	:	NOEC (Pseudokirchneriella subca mg/l Exposure time: 72 h Method: OECD Test Guideline 201	pitata (green algae)): > 100
Toxicity	y to microorganisms	:	LC50 (Bacteria): > 1,000 mg/l Exposure time: 40 h Test Type: Growth inhibition	
Toxicity toxicity	y to fish (Chronic ')	:	NOEC: > 100 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rai Remarks: The value is given based using OECD Toolbox, DEREK, VEC (CAESAR models), etc.	on a SAR/AAR approach
aquatio	y to daphnia and other c invertebrates ic toxicity)	:	NOEC: >= 1,000 mg/l Exposure time: 21 d Species: Daphnia magna (Water fle Remarks: The value is given based using OECD Toolbox, DEREK, VEC (CAESAR models), etc.	on a SAR/AAR approach
Molvb	denum. bis(dibutvlcar	bar	nodithioato)di-µ-oxodioxodi-, sulf	urized:
Toxicity	y to daphnia and other invertebrates		EC50 (Daphnia magna (Water flea) Exposure time: 48 h Test Type: semi-static test	
Toxicity plants	y to algae/aquatic	:	EC50 (Pseudokirchneriella subcap Exposure time: 72 h Test Type: static test	itata (algae)): > 100 mg/l
Ecoto	xicology Assessment			
Chroni	c aquatic toxicity	:	May cause long lasting harmful effe	ects to aquatic life.
Persis	tence and degradabili	ity		
Produc				
Biodeg	radability	:	Remarks: No data available	
Physic remova	o-chemical ability	:	Remarks: No data available	
<u>Comp</u>	onents:			
disodi	um sebacate:			
Biodeg	radability	:	Result: Biodegradable Biodegradation: 89 %	





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			Exposure time: 28 d	
White	mineral oil (petroleum	ı):		
Biodeg	gradability	:	Biodegradation: 31 %	
			Exposure time: 28 d	
Molyb	denum, bis(dibutylcar	baı	modithioato)di-µ-oxodioxodi-, sulfurized	l:
Biodeg	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>			
-	cumulation	:	Remarks: No data available	
C	oponto			
	onents:			
	um sebacate:			
	on coefficient: n- I/water	:	log Pow: -4.9 (20 °C) pH: 7.8	
			, -	
	mineral oil (petroleum	ı) :		
	on coefficient: n-	:	log Pow: > 6	
octano	l/water			
Molyb	denum, bis(dibutylcar	baı	modithioato)di-µ-oxodioxodi-, sulfurized	l:
	on coefficient: n-	:	log Pow: 6.24 - 7.28	
octano	l/water			
Mobili	ty in soil			
<u>Produ</u>	<u>ct:</u>			
Mobilit		:	Remarks: No data available	
Distrib	ution among		Remarks: No data available	
	nmental compartments	•		
041				
	adverse effects			
Produ				
Additic	onal ecological	:	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

Dispos	sal r	neth	od	S

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 ACGIH : 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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other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.

