according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier		
Product name	:	MICROLUBE GL 261
Article-No.	:	020195
1.2 Relevant identified	l uses of the s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Grease
Recommended res on use	strictions :	Restricted to professional users.
1.3 Details of the supp	lier of the safe	ety data sheet
Company	:	Klüber Lubrication München Geisenhausenerstr. 7 81379 München Deutschland Tel: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com
E-mail address of responsible for the	P	mcm@klueber.com Material Compliance Management
National contact	:	Klüber Lubrication Deutschland Geisenhausenerstraße 7 81379 München Deutschland Tel.: +49 89 7876 0 Fax: +49 89 7876 565 customer.service.de@klueber.com www.klueber.com
1.4 Emergency teleph Emergency teleph number		+49 89 7876 700 (24 hrs)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

:

3.2 Mixtures

Chemical nature

Mineral oil. special lithium soap UV indicator

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
bis(4-(1,1,3,3- tetramethyl- butyl)phenyl)amine	15721-78-5 239-816-9 01-2119930672-39- XXXX	Aquatic Chronic3; H412		>= 1 - < 2,5

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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 respira- tion.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get med-





according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version 3.0	Revision Date: 08.02.2019		nt Date: .02.2019		
		ical attention. Wash off with soap and water.			
In ca	se of eye contact	 Rinse immediately with plenty of water, also for at least 10 minutes. If eye irritation persists, consult a specialist. 	under the eyelids,		
If sw	allowed	: Move the victim to fresh air. Do not induce vomiting without medical advic	е.		
4.2 Most	4.2 Most important symptoms and effects, both acute and delayed				
Sym	ptoms	: No information available.			
Risks	5	: None known.			
4.3 Indica	4.3 Indication of any immediate medical attention and special treatment needed				
Trea	tment	: No information available.			

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide.
Unsuitable extinguishing media	:	High volume water jet
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Fire may cause evolution of: Carbon oxides Metal oxides Nitrogen oxides (NOx)
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Exposure to decomposition products may be a hazard to health.
Further information	:	Standard procedure for chemical fires.



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	 Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Clean up promptly by sweeping or vacuum.
		Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handli	ing	
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash hands and face before breaks and immediately after handling the product.
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.
7.2 Conditions for safe storage	ə, incl	uding any incompatibilities
Requirements for storage areas and containers	:	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.
Storage class (TRGS 510)	:	11, Combustible Solids
7.3 Specific end use(s)		
Specific use(s)	:	Specific instructions for handling, not required.
		a brand of



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Residual oils (petro- leum), hydrotreated; Baseoil -unspecified	Workers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	5,6 mg/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
bis(4-(1,1,3,3- tetramethyl- butyl)phenyl)amine	Workers	Inhalation	Long-term systemic effects	13,127 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	39,38 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,938 mg/kg
	Workers	Skin contact	Acute systemic ef- fects	2,81 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name		Environmental Compartment	Value
bis(4-(1,1,3,3- tetramethylbutyl)phenyl)amine		Fresh water	0 mg/l
Remarks:	No data av	/ailable	

8.2 Exposure controls

Engineering measures

none

Personal protective equipment				
Eye protection	:	Tightly fitting safety goggles		
Hand protection Material Protective index	:	Nitrile rubber Class 1		
Remarks	:	For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other		



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version 3.0	Revision Date: 08.02.2019	Date of last issue: 23.03.2018Print DateDate of first issue: 29.07.201511.02.2015	•
		things on the material, the thickness and the type of and therefore has to be measured for each case.	glove
Respi	ratory protection	: Not required; except in case of aerosol formation.	
Filter type		: Filter type P	
Protective measures		 The type of protective equipment must be selected a to the concentration and amount of the dangerous s at the specific workplace. Choose body protection in relation to its type, to the tration and amount of dangerous substances, and to cific work-place. 	substance concen-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	< 0,001 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	0,89 g/cm3 (20 °C)



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version 3.0	Revision Date: 08.02.2019		of last issue: 23.03.2018 of first issue: 29.07.2015	Print Date: 11.02.2019
Bulk	density	:	No data available	
	bility(ies) /ater solubility	:	insoluble	
So	olubility in other solvents	:	No data available	
	ion coefficient: n- ol/water	:	No data available	
Auto-	ignition temperature	:	No data available	
Deco	mposition temperature	:	No data available	
Visco Vi	sity scosity, dynamic	:	No data available	
Vi	scosity, kinematic	:	No data available	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	No data available	
9.2 Other	information			
Subli	mation point	:	No data available	
Self-i	gnition	:	No data available	

SECTION 10: Stability and reactivity

10.1	Reactivity		
	No hazards to be specially mer	ntior	ned.
10.2	Chemical stability		
	Stable under normal conditions	•	
10.3	Possibility of hazardous read	tio	ns
	Hazardous reactions	:	No dangerous reaction known under conditions of normal use.
10.4	Conditions to avoid		
	Conditions to avoid	:	No conditions to be specially mentioned.
10.5	Incompatible materials		
	Materials to avoid	:	No materials to be especially mentioned.



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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.

Components:

bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine:

Acute oral toxicity	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423 GLP: yes Assessment: The substance or mixture has no acute oral tox- icity
Acute dermal toxicity	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Remarks: This information is not available.

Components:

bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine:

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

Serious eye damage/eye irritation

Product:

Remarks: This information is not available.



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

Components:

bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine:

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

Respiratory or skin sensitisation

Product:

Remarks: This information is not available.

Components:

bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine:

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

Carcinogenicity

Product:

Remarks: No data available

Reproductive toxicity

Product:		
Effects on fertility	:	Remarks: No data available
Effects on foetal develop- ment	:	Remarks: No data available

Repeated dose toxicity

Product:

Remarks: This information is not available.



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

Aspiration toxicity

Product:

This information is not available.

Further information

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Product:

Troudott		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

Components:

bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine:

Ecotoxicology Assessment	
--------------------------	--

Acute aquatic toxicity	:	Harmful to aquatic life.
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product:

Biodegradability	:	Remarks: No data available
Physico-chemical removabili- ty	:	Remarks: No data available

Components:

bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine: Biodegradability : Test Type: aerobic



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

LUBE GL 261			
Revision Date: 08.02.2019			Print Date: 11.02.2019
		Result: Not rapidly biodegradable Biodegradation: 1,38 % Exposure time: 28 d Method: OECD Test Guideline 3011	F
cumulative potential			
ıct:			
cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very
oonents:			
(1,1,3,3-tetramethylbu	utyl)	phenyl)amine:	
on coefficient: n- bl/water	:	log Pow: 10,82 (25 °C)	
ity in soil			
<u>ict:</u>			
ty	:	Remarks: No data available	
oution among environ- Il compartments	:	Remarks: No data available	
Its of PBT and vPvB a	isse	ssment	
ıct:			
sment	:	This substance/mixture contains no to be either persistent, bioaccumula very persistent and very bioaccumu 0.1% or higher	ative and toxic (PBT), or
adverse effects			
<u>ict:</u>			
	- :	No information on ecology is availa	ble.
	Revision Date: 08.02.2019 cumulative potential net: cumulation nonents: (1,1,3,3-tetramethylbuton on coefficient: n- ol/water ity in soil net: ty pution among environ- il compartments Its of PBT and vPvB a net: sment	Revision Date: Date 08.02.2019 Date cumulative potential Inct: cumulation conents: (1,1,3,3-tetramethylbutyl) on coefficient: n- ity in soil ity in soil ict: ty ity on among environ- il compartments its of PBT and vPvB asses ict: sment :	Revision Date: Date of last issue: 23.03.2018 Date of first issue: 29.07.2015 Result: Not rapidly biodegradable Biodegradation: 1,38 % Exposure time: 28 d Method: OECD Test Guideline 301 rcumulative potential Int: cumulation : Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating conents: (1,1,3,3-tetramethylbutyl)phenyl)amine: on coefficient: n- bl/water ity in soil : lct: : ty : rdt: : ty : ity in soil ict: : ty : its of PBT and vPvB assessment ito be either persistent, bioaccumulation on to be either persistent, bioaccumulation on to be either persistent and very bioaccumulation on to be either persistent and very bioaccumulation on the persistent and very bioaccum

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version 3.0	Revision Date: 08.02.2019	Date of last issue: 23.03.2018Print Date:Date of first issue: 29.07.201511.02.2019				
		Waste codes should be assigned application for which the product				
Contaminated packaging		 Packaging that is not properly em the unused product. Dispose of waste product or used local regulations. 				
		The following Waste Codes are o	nly suggestions:			

SECTION 14: Transport information

14.1 UN number		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
14.5 Environmental hazards		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
14.6 Special precautions for use	r	

14.6 Special precautions for user

No special precautions required.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version 3.0	Revision Date: 08.02.2019	Date of last issue: 23.03.2018 Date of first issue: 29.07.2015	Print Date: 11.02.2019
-			

Remarks

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that dep- lete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pol- lutants	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Water contaminating class : (Germany)	:	WGK 1 slightly water endangering Classification according to AwSV, Annex 1 (5.2)
TA Luft List (Germany) :	:	Total dust: others: 9,33 %
		Inorganic substances in powdered form: portion Class 3: 0,47 %
		Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: others: 90,2 %
		Carcinogenic substances: Not applicable Mutagenic: Not applicable



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version 3.0	Revision Date: 08.02.2019		issue: 23.03.2018 issue: 29.07.2015	Print Date: 11.02.2019
Vo	latile organic compounds	Not ap : Direct emiss	to reproduction: oplicable ive 2010/75/EU of 24 Nove ons (integrated pollution p rks: Not applicable	
	emical safety assessmo prmation is not available.	ent		

SECTION 16: Other information

Full text of H-Statements

H412

: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Sub-



according to Regulation (EC) No. 1907/2006 - DE



MICROLUBE GL 261

Version	Revision Date:	Date of last issue: 23.03.2018	Print Date:
3.0	08.02.2019	Date of first issue: 29.07.2015	11.02.2019

stances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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