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



# Klübersynth GEM 4-32 NH

Version	Revision Date:	Date of last issue: 12.11.2019	Print Date:
2.5	07.07.2020	Date of first issue: 08.07.2016	07.07.2020

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

1.1	Product	identifier
-----	---------	------------

Product name	:	Klübersynth GEM 4-32 NH			
Article-No.	:	012296			
1.2 Relevant identified uses of the substance or mixture and uses advised against					
Use of the Sub- stance/Mixture	:	Lubricating oil			
Recommended restrictions on use	:	Restricted to professional users.			

#### **1.3 Details of the supplier of the safety 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 person responsible for the SDS	:	mcm@klueber.com Material Compliance Management
National contact	:	Klüber Lubrication CZ, s.r.o. Michelská 1552/58 141 00 Praha 4 Czech Republic Tel.: +420 234 714 710 Fax: +420 234 714 718 E-mail: cs@cz.klueber.com www.klueber.cz

### 1.4 Emergency telephone number

Emergency telephone num- ber	:	<ul> <li>Nouzové telefonní císlo pro celou CR: nepretrzite 224 919 293 nebo 224 915 402</li> <li>Adresa:</li> <li>Klinika nemocí z povoláni, Toxikologické informacní stredisko (TIS), Na Bojisti 1, 128 08 Praha 2</li> </ul>
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0049 (0) 897876-700 (24hrs)



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



# Klübersynth GEM 4-32 NH

Version	Revision Date:	Date of last issue: 12.11.2019	Print Date:
2.5	07.07.2020	Date of first issue: 08.07.2016	07.07.2020

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 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.
EUH208	Contains amines, C12-14-tert-alkyl. May produce an allergic reaction.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive 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

Synthetic hydrocarbon oil ester oil

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
amines, C12-14-tert- alkyl	701-175-2 01-2119456798-18- XXXX	Acute Tox.4; H302 Acute Tox.2; H330 Acute Tox.3; H311 Skin Corr.1B; H314 Eye Dam.1; H318 Skin Sens.1A;	M-Factor: 1/1	>= 0,025 - < 0,1
		H317 STOT SE3; H335 Aquatic Acute1; H400 Aquatic Chronic1;		



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



### Klübersynth GEM 4-32 NH

Version 2.5	Revision Date: 07.07.2020	Date of last issue: 12.11.2019 Date of first issue: 08.07.2016	Print Date: 07.07.2020			
		H410				
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 respiration. In case of skin contact Remove contaminated clothing. If irritation develops, get med-: ical attention. In case of contact, immediately flush skin with plenty of water. Rinse immediately with plenty of water, also under the eyelids, In case of eye contact : 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. 4.2 Most important symptoms and effects, both acute and delayed Symptoms No information available. : Risks None known. : 4.3 Indication of any immediate medical attention and special treatment needed Treatment No information available. :

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

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

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-	:	Fire may cause evolution of:
fighting		Carbon oxides



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



# Klübersynth GEM 4-32 NH

Versio 2.5	n Revision Date: 07.07.2020		te of last issue: 12.11.2019 te of first issue: 08.07.2016	Print Date: 07.07.2020
SI fo	vice for firefighters pecial protective equipment r firefighters	nt :	In the event of fire, wear self-contain Use personal protective equipment. tion products may be a hazard to hea	Exposure to decomposi- alth.
Fi	urther information	:	Standard procedure for chemical fire	S.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures					
Personal precautions :	Evacuate personnel to safe areas. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.				
6.2 Environmental precautions					

Environmental precautions	<ul> <li>Try to prevent the material from entering drains or water courses.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver-
		miculite) and place in container for disposal according to local / national regulations (see section 13).

#### 6.4 Reference to other sections

For personal protection see section 8.

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

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, including any incompatibilities

Requirements for storage	:	Store in original container. Keep container closed when not in
areas and containers		use. Keep in a dry, cool and well-ventilated place. Containers



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



# Klübersynth GEM 4-32 NH

Version 2.5	Revision Date: 07.07.2020		te of last issue: 12.11.2019 te of first issue: 08.07.2016	Print Date: 07.07.2020
		which are opened must be carefully re to prevent leakage. Store in accordanc national regulations. Keep in properly		rdance with the particular
-	fic end use(s) ific use(s)	:	Specific instructions for handling,	not required.

### **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
diisotridecyl adipate	Workers	Inhalation	Long-term systemic effects	24 mg/m3
	Workers	Skin contact	Long-term systemic effects	3,4 mg/kg bw/day
amines, C12-14-tert- alkyl	Workers	Inhalation	Long-term systemic effects	12,5 mg/m3
	Workers	Inhalation	Long-term local ef- fects	12,1 mg/m3

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

Substance name	Environmental Compartment	Value
diisotridecyl adipate	Fresh water	0,00004 mg/l
	Intermittent use/release	1 mg/l
	Marine water	0,000004 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	48 mg/l
	Fresh water sediment	40 mg/kg dry
		weight (d.w.)
	Marine sediment	40 mg/kg dry
		weight (d.w.)
	Soil	1 mg/kg dry
		weight (d.w.)
amines, C12-14-tert-alkyl	Fresh water	0,001 mg/l
	Marine water	0,0001 mg/l
	Intermittent use/release	0,004 mg/l
	Sewage treatment plant	0,635 mg/l
	Fresh water sediment	2,14 mg/l
	Marine sediment	0,214 mg/l
	Soil	0,428 mg/l
	Oral	4,71 mg/l



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



# Klübersynth GEM 4-32 NH

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Version 2.5	Revision Date: 07.07.2020		e of last issue: 12.11.2019 e of first issue: 08.07.2016	Print Date: 07.07.2020
8.2 Expos	sure controls			
<b>Engi</b> none	neering measures			
Pers	onal protective equi	pment		
	protection	:	Safety glasses with side-shields	
M Br	protection aterial eak through time otective index	:	Nitrile rubber > 10 min Class 1	
R	emarks	:	Wear protective gloves. The break amongst other things on the mater type of glove and therefore has to case. The selected protective gloves hav tions of Regulation (EU) 2016/425 derived from it.	ial, the thickness and the be measured for each ve to satisfy the specifica-
Resp	iratory protection	:	Not required; except in case of ae	rosol formation.
Filter	type	:	Filter type A-P	
Prote	ctive measures	:	The type of protective equipment r to the concentration and amount of at the specific workplace. Choose body protection in relation tration and amount of dangerous s cific work-place.	f the dangerous substance to its type, to the concen-

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	No data available
Melting point/range	:	No data available



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



# Klübersynth GEM 4-32 NH

Vers 2.5	sion	Revision Date: 07.07.2020		of last issue: 12.11.2019 of first issue: 08.07.2016	Print Date: 07.07.2020
	Boiling	g point/boiling range	:	No data available	
	Flash	point	:	>= 200 °C Method: ISO 2592, open cup	
	Evapo	pration rate	:	No data available	
	Flamm	nability (solid, gas)	:	Not applicable	
		explosion limit / Upper ability limit	· :	No data available	
		explosion limit / Lower ability limit	· :	No data available	
	Vapou	ır pressure	:	< 0,001 hPa (20 °C)	
	Relativ	ve vapour density	:	No data available	
	Densit	ÿ	:	0,85 g/cm3 (20 °C)	
	Bulk d	ensity	:	No data available	
		lity(ies) ater solubility	:	insoluble	
	Sol	lubility in other solvents	<b>3</b> :	No data available	
		on coefficient: n- bl/water	:	No data available	
	Auto-i	gnition temperature	:	No data available	
	Decon	nposition temperature	:	No data available	
	Viscos Vis	sity cosity, dynamic	:	No data available	
	Vis	cosity, kinematic	:	32 mm2/s (40 °C)	
	Explos	sive properties	:	Not explosive	
	Oxidiz	ing properties	:	No data available	
9.2 (	Other i	nformation			
	Sublin	nation point	:	No data available	
	Self-ig	nition	:	No data available	



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



# Klübersynth GEM 4-32 NH

	Revision Date:	Date of last issue: 12.11.2019	Print Date:
	)7.07.2020	Date of first issue: 08.07.2016	07.07.2020
2.0	57.07.2020	Date of first issue. 00.07.2010	07.07.2020

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

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

Acute toxicity

Materials to avoid : No materials to be especially mentioned.

#### **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	e.
Acute inhalation toxicity	: Remarks: This information is not available	e.
Acute dermal toxicity	: Remarks: This information is not available	e.
Components:		
amines, C12-14-tert-alkyl:		
Acute oral toxicity	: LD50 (Rat): 612 mg/kg Method: OECD Test Guideline 401	
Acute inhalation toxicity	: LC50 (Rat): 1,19 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403	
Acute dermal toxicity	: LD50 (Rat): 251 mg/kg Method: OECD Test Guideline 402	



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



# Klübersynth GEM 4-32 NH

rsion 5	Revision Date: 07.07.2020		e of last issue: 12.11.2019 e of first issue: 08.07.2016	Print Date: 07.07.2020
Skin	corrosion/irritation			
Prod	uct:			
Rema			This information is not available.	
Reine		•		
Com	ponents:			
amin	es, C12-14-tert-alkyl:			
Asse	Assessment		Causes burns.	
Resu	lt	:	Causes burns.	
Serio	ous eye damage/eye i	rritati	on	
<u>Prod</u>	uct:			
Rema	arks	:	This information is not available.	
<u>Com</u>	ponents:			
amin	es, C12-14-tert-alkyl:			
Spec	ies	:	Rabbit	
•	ssment	:	Risk of serious damage to eyes.	
Meth	od	:	OECD Test Guideline 405	
Resu	lt	:	Irreversible effects on the eye	
Resp	iratory or skin sensit	isatio	on	
Prod	uct:			
Rema	arks	:	This information is not available.	
Com	ponents:			
amin	es, C12-14-tert-alkyl:			
Spec		:	Guinea pig	
	ssment	:	The product is a skin sensitiser, sub	-category 1A.
Meth		:	OECD Test Guideline 406	consitionation rate in hu
Resu	п	•	Probability or evidence of high skin s	sensilisation rate in nu-
Germ	n cell mutagenicity			
Prod	uct:			
	otoxicity in vitro	:	Remarks: No data available	
Geno	otoxicity in vivo	:	Remarks: No data available	
Com	ponents:			
amin	es, C12-14-tert-alkyl:			
	otoxicity in vitro	•	Test Type: In vitro mammalian cell g	pene mutation test
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according to Regulation (EC) No. 1907/2006 - CZ



# Klübersynth GEM 4-32 NH

Test system: Chinese hamster ovary cells Method: OECD Test Guideline 476 Result: negative         Test Type: Arnes test Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative         Genotoxicity in vivo       : Test Type: Chromosome aberration test in vitro Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative         Germ cell mutagenicity- As- sessment       : Animal testing did not show any mutagenic effects.         Carcinogenicity       : Animal testing did not show any mutagenic effects.         Product: Effects on fertility       : No data available         Reproductive toxicity       : Remarks: No data available         Components: ment       : Remarks: No data available         Effects on foetal develop- ment       : Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic develop- ment were detected.         Reproductive toxicity - As- sessent       : Animal testing did not show any effects on fertility. Animal testing did not show any effects on foretal develop- ment were detected.         Reproductive toxicity - As- sessent       : Animal testing did not show any effects on foretal develop- ment.         STOT - single exposure       : Animal testing did not show any effects on foretal develop- ment.         STOT - single exposure       : Animal testing did not show any effects on foretal develop- ment.         Stot - single exposure <td< th=""><th>ersion .5</th><th>Revision Date: 07.07.2020</th><th></th><th>e of last issue: 12.11.2019 e of first issue: 08.07.2016</th><th>Print Date: 07.07.2020</th></td<>	ersion .5	Revision Date: 07.07.2020		e of last issue: 12.11.2019 e of first issue: 08.07.2016	Print Date: 07.07.2020
Test system: Salmonella typhimurium Method: OECD Test Guideline 471 Result: negative         Genotoxicity in vivo       : Test Type: Chromosome aberration test in vitro Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative         Germ cell mutagenicity- As- sessment       : Animal testing did not show any mutagenic effects.         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         Components: ment       :         amines, C12-14-tert-alkyl:       :         Effects on foetal develop- ment       : Species: Rat 				Method: OECD Test Guideline 476	
Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative         Germ cell mutagenicity- As- sessment       : Animal testing did not show any mutagenic effects.         Carcinogenicity       : No data available         Product: Remarks       : No data available         Reproductive toxicity       : Remarks: No data available         Effects on fertility       : Remarks: No data available         Effects on foetal develop- ment       : Remarks: No data available         Components: anines, C12-14-tert-alkyl:       : Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic develop- ment were detected.         Reproductive toxicity - As- sessment       : Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal develop- ment.         STOT - single exposure       : Animal testing did not show any effects on foetal develop- ment.				Test system: Salmonella typhimuri Method: OECD Test Guideline 471	
sessment         Carcinogenicity         Product:         Remarks       : No data available         Reproductive toxicity         Product:         Effects on fertility       : Remarks: No data available         Effects on foetal development       : Remarks: No data available         Components:       : Remarks: No data available         amines, C12-14-tert-alkyl:       : Species: Rat Method: OECD Test Guideline 414 Result: No effects on fortility and early embryonic development were detected.         Reproductive toxicity - Assessment       : Animal testing did not show any effects on foetal development.         STOT - single exposure       : Animal testing did not show any effects on foetal development.         STOT - single exposure       : Animal testing did not show any effects on foetal development.	Geno	toxicity in vivo	:	Species: Mouse Application Route: Oral Method: OECD Test Guideline 474	
Product:       Remarks       : No data available         Reproductive toxicity       Product:         Product:       : Remarks: No data available         Effects on fortility       : Remarks: No data available         Effects on foetal development       : Remarks: No data available         Components:       : Remarks: No data available         amines, C12-14-tert-alkyl:       : Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected.         Reproductive toxicity - As- sessment       : Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal development.         STOT - single exposure       : Animal testing did not show any effects on foetal developments:         amines, C12-14-tert-alkyl:       : Hetta at the store of the show any effects on fertility.			:	Animal testing did not show any m	utagenic effects.
Remarks:No data availableReproductive toxicity:Product::Effects on fortility:Effects on foetal develop- ment:Remarks: No data availableComponents:amines, C12-14-tert-alkyl:Effects on foetal develop- ment:Species: Rat Method: OECD Test Guideline 414 Result: No effects on fortility and early embryonic develop- ment were detected.Reproductive toxicity - As- sessment:STOT - single exposure:Components: amines, C12-14-tert-alkyl::amines, C12-14-tert-alkyl::Stot - single exposure:Components: amines, C12-14-tert-alkyl::	Carci	inogenicity			
Product:Effects on fertility:Effects on foetal develop- ment:Remarks: No data availableComponents:amines, C12-14-tert-alky!:Effects on foetal develop- ment:Stors on foetal develop- ment:Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic develop- ment were detected.Reproductive toxicity - As- sessment:Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal develop- ment.STOT - single exposure:Components: amines, C12-14-tert-alky!:			:	No data available	
Effects on fertility:Remarks: No data availableEffects on foetal development:Remarks: No data availableComponents::Remarks: No data availableamines, C12-14-tert-alkyl::Species: Rat Method: OECD Test Guideline 414 Result: No effects on fortility and early embryonic development were detected.Reproductive toxicity - Assessment:Animal testing did not show any effects on fortility. Animal testing did not show any effects on foetal development.STOT - single exposure:STOT - single exposureComponents:::amines, C12-14-tert-alkyl::	Repr	oductive toxicity			
Effects on foetal development: Remarks: No data availableComponents:amines, C12-14-tert-alkyl:Effects on foetal development: Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected.Reproductive toxicity - Assessment: Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal development.STOT - single exposure: Stot - single exposure amines, C12-14-tert-alkyl:			:	Remarks: No data available	
amines, C12-14-tert-alkyl:Effects on foetal development: Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected.Reproductive toxicity - Assessment: Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal development.STOT - single exposure: STOT - single exposure amines, C12-14-tert-alkyl:	Effec	ts on foetal develop-			
Effects on foetal development: Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and early embryonic development were detected.Reproductive toxicity - Assessment: Animal testing did not show any effects on fertility. Animal testing did not show any effects on foetal development.STOT - single exposure: STOT - single exposureComponents: amines, C12-14-tert-alkyl:: Stot - single exposure	<u>Com</u>	ponents:			
sessment       Animal testing did not show any effects on foetal development.         STOT - single exposure       Components:         amines, C12-14-tert-alkyl:       Components:	Effec	ts on foetal develop-	:	Method: OECD Test Guideline 414 Result: No effects on fertility and e	
<u>Components:</u> amines, C12-14-tert-alkyl:		•	:	Animal testing did not show any ef	
amines, C12-14-tert-alkyl:	STO	Γ - single exposure			
· · · · · · · · · · · · · · · · · · ·	<u>Com</u>	ponents:			
		· · ·	:	May cause respiratory irritation.	



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



# Klübersynth GEM 4-32 NH

rsion 5	Revision Date: 07.07.2020	Date of last issue: 12.11.2019 Date of first issue: 08.07.2016	Print Date: 07.07.2020
STO	- repeated exposure	)	
	ponents:		
amin	es, C12-14-tert-alkyl:		
	ssment	: The substance or mixture is not or organ toxicant, repeated exposur	
Repe	ated dose toxicity		
Prod	uct:		
Rema	arks	: This information is not available.	
Com	ponents:		
amin	es, C12-14-tert-alkyl:		
	EL cation Route atmosphere	: Rat : 19 mg/kg : Inhalation : vapour : OECD Test Guideline 412	
Speci NOAI Applio Metho	EL cation Route	: Rat : 20 mg/kg : Skin contact : OECD Test Guideline 410	
Aspii	ration toxicity		
Prod			
This i	nformation is not avai	able.	
<u>Com</u>	ponents:		
amin	es, C12-14-tert-alkyl:		

No aspiration toxicity classification

#### **Further information**

### Product:

Remarks

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



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



# Klübersynth GEM 4-32 NH

Version	Revision Date:	Date of last issue: 12.11.2019	Print Date:
2.5	07.07.2020	Date of first issue: 08.07.2016	07.07.2020

### **SECTION 12: Ecological information**

### 12.1 Toxicity

<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:		
amines, C12-14-tert-alkyl:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 1,3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2,5 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 0,44 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
M-Factor (Acute aquatic tox- icity)	:	1
Toxicity to fish (Chronic tox- icity)	:	NOEC: 0,078 mg/l Exposure time: 96 d Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 210
M-Factor (Chronic aquatic toxicity)	:	1
2 Persistence and degradabili	ity	

# 12.2

Product:		
Biodegradability	:	Remarks: No data available
Physico-chemical removabil- ity	:	Remarks: No data available



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



# Klübersynth GEM 4-32 NH

Version	Revision Date:	Date of last issue: 12.11.2019	Print Date:
2.5	07.07.2020	Date of first issue: 08.07.2016	07.07.2020

#### Components:

amines, C12-14-tert-alkyl:		
Biodegradability	:	Inoculum: activated sludge Concentration: 4 mg/l Result: Not rapidly biodegradable Biodegradation: 21,8 % Exposure time: 28 d Method: OECD Test Guideline 301D

#### 12.3 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:

### amines, C12-14-tert-alkyl:

Partition coefficient: n-	:	log Pow: 2,9 (20 °C)
octanol/water		

#### 12.4 Mobility in soil

<u>Product:</u> Mobility	:	Remarks: No data available
Distribution among environ- mental compartments	:	Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment	:	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
		0.1% or higher

#### 12.6 Other adverse effects

### Product:

Additional ecological infor-	:	No information on ecology is available.
mation		



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



# Klübersynth GEM 4-32 NH

Version	Revision Date:	Date of last issue: 12.11.2019	Print Date:
2.5	07.07.2020	Date of first issue: 08.07.2016	07.07.2020

### **SECTION 13:** Disposal considerations

#### 13.1 Waste treatment methods

Product	The product should not be allowed to enter drains, water courses or the soil.
	Waste codes should be assigned by the user based on the application for which the product was used.
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.
	The following Waste Codes are only suggestions:
Waste Code	unused product 13 02 06*, synthetic engine, gear and lubricating oils
	uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

### **SECTION 14: Transport information**

# 14.1 UN number ADR

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	:	Not regulated as a dangerous good
	:	Not regulated as a dangerous good



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



# Klübersynth GEM 4-32 NH

Version 2.5	Revision Date: 07.07.2020	Date of last issue: 12.11.2019Print Date:Date of first issue: 08.07.201607.07.2020			
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good			
	(Passenger) ronmental hazards	: Not regulated as a dangerous good			
ADR		: Not regulated as a dangerous good			
IMDO	6	: Not regulated as a dangerous good			
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good			
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good			
14.6 Special precautions for user Not applicable					
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> 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 applicableRegulation (EC) No 1005/2009 on substances that de- plete the ozone layer:Not applicableRegulation (EU) 2019/1021 on persistent organic pollu- tants (recast):Not applicableRegulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals:Not applicableREACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):Not applicableSeveso III: Directive 2012/18/EU of the European Parlia- major-accident hazards involving dangerous substances. Not applicable:Not applicable			
REACH - List of substances subject to authorisation (Annex XIV)       : Not applicable         Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer       : Not applicable         Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)       : 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	, .	:	stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH),
plete the ozone layer       Regulation (EU) 2019/1021 on persistent organic pollution is involving dangerous substances.       Not applicable         Regulation (EC) No 649/2012 of the European Parliament 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	•	:	,
<ul> <li>tants (recast)</li> <li>Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals</li> <li>REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)</li> <li>Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.</li> </ul>	<b>e</b>	:	Not applicable
<ul> <li>ment and the Council concerning the export and import of dangerous chemicals</li> <li>REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)</li> <li>Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.</li> </ul>		:	Not applicable
the market and use of certain dangerous substances, preparations and articles (Annex XVII) Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	ment and the Council concerning the export and import	:	Not applicable
major-accident hazards involving dangerous substances.	the market and use of certain dangerous substances,	:	Not applicable
	major-accident hazards involving dangerous substances.		and of the Council on the control of

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0,14 %



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



### Klübersynth GEM 4-32 NH

Version	Revision Date:	Date of last issue: 12.11.2019	Print Date:
2.5	07.07.2020	Date of first issue: 08.07.2016	07.07.2020

#### Other regulations:

Regulation of the European Parliament and Council Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP) Regulation of the European Parliament and Council Regulation (EC) No 286/2011 amending, for the purposes of its adaptation to technical progress, Regulation of the European Parliament and Council Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP) Act No. 350/2011 Sb. on chemical substances and chemical mixtures, as amended Act No. 258/2000 Sb. the protection of public health, as amended Act No. 262/2006 Sb. The Labour Code, as amended Law No. 201/2012 Sb. On air protection, as amended Act No. 254/2001 Sb. Water, as amended Government Regulation No. 361/2007 Sb. Laying down the conditions of health of workers at work, as amended Act No. 185/2001 Sb. On waste, as amended

#### 15.2 Chemical safety assessment

This information is not available.

#### **SECTION 16: Other information**

#### Full text of H-Statements

H302	: Harmful if swallowed.
H311	: Toxic in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H335	: May cause respiratory irritation.
H400	: Very toxic to aquatic life.
H410	: Very toxic 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 concentra-



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### Klübersynth GEM 4-32 NH

Version	Revision Date:	Date of last issue: 12.11.2019	Print Date:
2.5	07.07.2020	Date of first issue: 08.07.2016	07.07.2020

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

#### Further information

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