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



# Klübersynth GEM 4-100 N (H)

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

1.1 Pi	roduct identifier		
F	Product name	:	Klübersynth GEM 4-100 N (H)
A	Article-No.	:	012377
1.2 R	elevant identified uses of th	e s	ubstance or mixture and uses advised against
-	Jse of the Sub- stance/Mixture	:	Lubricating oil
	Recommended restrictions on use	:	Restricted to professional users.
1.3 D	etails of the supplier of the	saf	ety data sheet
C	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 Deutschland Geisenhausenerstraße 7 81379 München Deutschland Tel.: +49 89 7876 0 Fax: +49 89 7876 565 customer.service.de@klueber.com www.klueber.com
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## 1.4 Emergency telephone number

Emergency telephone num- : +49 89 7876 700 (24 hrs) ber

## **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

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

Not a hazardous substance or mixture.



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#### 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, C10-14-tert-alkyl. May produce an allergic reaction.

#### 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

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, C10-14-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; H317 STOT SE3; H335 Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 1/1	>= 0,025 - < 0,1

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.



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			If breathing is irregular or stopped, tion.	administer artificial respira
In ca	se of skin contact	:	Remove contaminated clothing. If i ical attention. In case of contact, immediately flue	
In ca	se of eye contact	:	Rinse immediately with plenty of w for at least 10 minutes. If eye irritation persists, consult a s	
If swallowed		:	Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.	
.2 Most i	important symptoms a	nd e	effects, both acute and delayed	
Symp	otoms	:	No information available.	
Risks		:	None known.	
.3 Indica	tion of any immediate	med	dical attention and special treatme	ent needed
<b>.3 Indica</b> Treat	-	meo :	<b>dical attention and special treatme</b> No information available.	ent needed
Treat	-	:	No information available.	ent needed
Treat	ment	:	No information available.	ent needed
Treat ECTION	ment N 5: Firefighting mea	: sur	No information available.	
Treat ECTION .1 Exting Suita	ment <b>N 5: Firefighting mea guishing media</b> ble extinguishing media itable extinguishing	: sur	No information available.	
Treat ECTION .1 Exting Suita Unsu media	ment N 5: Firefighting mea guishing media ble extinguishing media itable extinguishing a	: <b>sur</b> :	No information available. es Use water spray, alcohol-resistant bon dioxide.	

## 5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposi- tion products may be a hazard to health.
Further information	:	Standard procedure for chemical fires.



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## **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 :	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.				
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 p plication area. Wash hands and face before breaks and handling the product.	•
Hygiene measures :	:	Wash face, hands and any exposed skin handling.	thoroughly after
7.2 Conditions for safe storage, inc	clu	uding any incompatibilities	
Requirements for storage : areas and containers	:	Store in original container. Keep container use. Keep in a dry, cool and well-ventilater which are opened must be carefully resear to prevent leakage. Store in accordance we national regulations. Keep in properly lab	ed place. Containers aled and kept upright with the particular
Storage class (TRGS 510) :	:	10, Combustible liquids	
7.3 Specific end use(s)			
Specific use(s) :	:	Specific instructions for handling, not requ	uired.
			a brand of

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### **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, C10-14-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, C10-14-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

#### 8.2 Exposure controls

•		
Engineering measures		
none		
Personal protective equipn	nent	
Eye protection	:	Safety glasses with side-shields
Hand protection Material	:	Nitrile rubber



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	Break through time Protective index	:	> 10 min Class 1	
I	Remarks	:	Wear protective gloves. The break throu amongst other things on the material, the type of glove and therefore has to be me case. The selected protective gloves have to s tions of Regulation (EU) 2016/425 and the derived from it.	e thickness and the easured for each atisfy the specifica-
Res	piratory protection	:	Not required; except in case of aerosol f	ormation.
Filte	er type	:	Filter type A-P	
Pro	tective measures	:	The type of protective equipment must be to the concentration and amount of the c at the specific workplace. Choose body protection in relation to its tration and amount of dangerous substa cific work-place.	langerous substance 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	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 200 °C Method: open cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper	:	No data available



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flar	nmability limit			
	wer explosion limit / Lower mmability limit	r:	No data available	
Va	pour pressure	:	< 0,001 hPa (20 °C)	
Re	lative vapour density	:	No data available	
Re	lative density	:	0,85 (20 °C) Reference substance: Water The value is calculated	
De	nsity	:	0,85 g/cm3 (20 °C)	
Bu	lk density	:	No data available	
	lubility(ies) Water solubility	:	insoluble	
	Solubility in other solvents	s :	No data available	
	rtition coefficient: n- anol/water	:	No data available	
Au	to-ignition temperature	:	No data available	
De	composition temperature	:	No data available	
Vis	cosity Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	100 mm2/s (40 °C)	
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	No data available	
	er information blimation point	:	No data available	
Se	lf-ignition	:	No data available	

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

### 10.1 Reactivity

No hazards to be specially mentioned.



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## 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				

: 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

Materials to avoid

Product:

Acute oral toxicity	: Remarks: This inform	nation is not available.
Acute inhalation toxicity	: Remarks: This inform	nation is not available.
Acute dermal toxicity	: Remarks: This inforn	nation is not available.

### **Components:**

amines, C10-14-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
Skin corrosion/irritation		
Product:		

Remarks :	This information is not available.
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<u>Com</u>	ponents:		
amin	es, C10-14-tert-alkyl		
	ssment	<ul><li>Causes burns.</li><li>Causes burns.</li></ul>	
Seric	ous eye damage/eye	rritation	
Prod	uct:		
Rema	arks	: This information is not availa	ble.
Com	ponents:		
amin	es, C10-14-tert-alkyl		
Spec		: Rabbit	
	ssment	: Risk of serious damage to ey	yes.
Meth Resu		: OECD Test Guideline 405 : Irreversible effects on the eye	e
Resp	piratory or skin sensi	isation	
<u>Prod</u>			
Rema	arks	: This information is not availa	ble.
<u>Com</u>	ponents:		
amin	es, C10-14-tert-alkyl		
Spec		: Guinea pig	
	ssment	<ul> <li>The product is a skin sensitis</li> <li>OECD Test Guideline 406</li> </ul>	ser, sub-category 1A.
Meth Resu			gh skin sensitisation rate in hu-
Germ	n cell mutagenicity		
Prod	uct:		
Geno	otoxicity in vitro	: Remarks: No data available	
Geno	otoxicity in vivo	: Remarks: No data available	
<u>Com</u>	ponents:		
amin	es, C10-14-tert-alkyl		
Genc	otoxicity in vitro	: Test Type: In vitro mammalia Test system: Chinese hamst Method: OECD Test Guidelir Result: negative	er ovary cells
		Test Type: Ames test	
			a brand of



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ersion .4	Revision Date: 13.04.2021		e of last issue: 13.11.2019 e of first issue: 29.09.2016	Print Date: 13.04.2021
			Test system: Salmonella typhimuri Method: OECD Test Guideline 471 Result: negative	
Genotoxicity in vivo		:	Test Type: Chromosome aberratio Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative	
Germ sessm	cell mutagenicity- As- nent	:	Animal testing did not show any m	utagenic effects.
Carci	nogenicity			
<u>Prodι</u> Rema		:	No data available	
Repro	oductive toxicity			
Produ Effect	<b>ict:</b> s on fertility	:	Remarks: No data available	
Effects on foetal develop- ment		:	Remarks: No data available	
<u>Comp</u>	oonents:			
amine	es, C10-14-tert-alkyl:			
Effect ment	s on foetal develop-	:	Species: Rat Method: OECD Test Guideline 414 Result: No effects on fertility and e ment were detected.	
Reproductive toxicity - As- sessment		:	Animal testing did not show any eff Animal testing did not show any eff ment.	
STOT	- single exposure			
<u>Comp</u>	oonents:			
	es, C10-14-tert-alkyl: ssment	:	May cause respiratory irritation.	
STOT	- repeated exposure			
<u>Comp</u>	oonents:			
<b>.</b>	es, C10-14-tert-alkyl:			



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Assessment		:	The substance or mixture is not cla organ toxicant, repeated exposure.	
Repe	ated dose toxicity			
Produ	<u>uct:</u>			
Rema	ırks	:	This information is not available.	
<u>Comp</u>	oonents:			
amine	es, C10-14-tert-alky	l:		
Speci		:	Rat	
NOAE Applic	L cation Route	:	19 mg/kg Inhalation	
	atmosphere	:	vapour	
Method		:	OECD Test Guideline 412	
Species		:	Rat	
NOAEL Application Route Method		:	20 mg/kg Skin contact	
		:	OECD Test Guideline 410	
Aspir	ation toxicity			
Produ	<u>uct:</u>			
This i	nformation is not ava	ilable.		
<u>Comp</u>	oonents:			
amine	es, C10-14-tert-alky	l:		
No as	piration toxicity class	sificatior	l de la construcción de la constru	
Furth	er information			
Produ	uct:			
Rema	ırks	:	Information given is based on data	on the components and
			the toxicology of similar products.	

# **SECTION 12: Ecological information**

## 12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available



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	Toxicity to algae/aquatic plants		Remarks: No data available	
Toxic	Toxicity to microorganisms		Remarks: No data available	
<u>Com</u>	oonents:			
amine	es, C10-14-tert-alkyl:			
Toxic	Toxicity to fish		LC50 (Oncorhynchus mykiss (rai Exposure time: 96 h Method: OECD Test Guideline 2	
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water fle Exposure time: 48 h	ea)): 2,5 mg/l
	Toxicity to algae/aquatic plants		EC50 (Selenastrum capricornutu Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 2	
M-Fa icity)	ctor (Acute aquatic tox-	:	1	
Toxic icity)	Toxicity to fish (Chronic tox- icity)		NOEC: 0,078 mg/l Exposure time: 96 d Species: Oncorhynchus mykiss ( Method: OECD Test Guideline 2	
	M-Factor (Chronic aquatic toxicity)		1	
2.2 Persi	stence and degradabi	lity		
Prod	uct:			
Biode	egradability	:	Remarks: No data available	
Physi ity	Physico-chemical removabil- ity		Remarks: No data available	
<u>Com</u>	oonents:			
	amines, C10-14-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 3	



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### 12.3 Bioaccumulative potential

1 100000	Ρ	r	റ	d		c	t	•
			v	u	u	v	L	

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,	C10-14-tert-alkyl:
---------	--------------------

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

### 12.4 Mobility in soil

o data available

Distribution among environ-	:	Remarks: No data available
mental compartments		

#### 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

### 12.6 Other adverse effects

Product:	
Endocrine disrupting poten- : tial	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Additional ecological infor- : mation	No information on ecology is available.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product

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



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			des should be assigned n for which the product	l by the user based on the was used.
Conta	aminated packaging	the unuse	d product. If waste product or used	nptied must be disposed of as d containers according to
		The follow	ving Waste Codes are c	only suggestions:
Wast	e Code	: unused pi 13 02 06*	oduct , synthetic engine, gear	and lubricating oils
		15 01 10,	d packagings packaging containing r ous substances	esidues of or contaminated

## **SECTION 14: Transport information**

#### 14.1 UN number

	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	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		
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	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)			
	ADN	:	Not regulated as a dangerous good
	ADR	:	Not regulated as a dangerous good
	RID	:	Not regulated as a dangerous good
	IMDG	:	Not regulated as a dangerous good
	ΙΑΤΑ	:	Not regulated as a dangerous good
14.4	Packing group		
	ADN	:	Not regulated as a dangerous good



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	1010 112021						
ADR		: Not regulated as a dangerous good					
RID		: Not regulated as a dangerous good					
IMDO	3	: Not regulated as a dangerous good					
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good					
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good					
14.5 Envi	14.5 Environmental hazards						
ADN		: Not regulated as a dangerous good					
ADR		: Not regulated as a dangerous good					
RID		: Not regulated as a dangerous good					
IMDO	3	: Not regulated as a dangerous good					
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good					
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good					
<b>14.6 Special precautions for user</b> Not applicable							
14.7 Tran	sport in bulk accord	ng to Annex II of Marpol and the IBC Code					
Rema	arks	: 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 deplete 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



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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 hazardous to water Classification according to AwSV, Annex 1 (5.2)
TA Luft List (Germany)	:	Total dust: others: 0,24 %
		Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not applicable Organic Substances: portion Class 1: 0,1 % others: 99,66 %
		Carcinogenic substances: Not applicable Mutagenic: Not applicable Toxic to reproduction: Not applicable
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 %

## 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



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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; AIIC - Australian Inventory of Industrial Chemicals; 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 Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

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



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