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



## Klüberplex BE 31-222

on use

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

1.1 Product identifier		
Product name	:	Klüberplex BE 31-222
Article-No.	:	017132
1.2 Relevant identified uses of t	the s	substance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Grease
Recommended restrictions	:	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	:	TERAD d.o.o. Štefanovečka cesta 10 10040 Zagreb Croatia (Hrvatska) Mobile: +385 98 386 297 Phone: +385 1 2852 425 Fax: +385 1 2915 944 Email: terad@terad.hr www.terad.hr

#### 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.

#### 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. 1 special calcium soap

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification REGULATION (EC) No 1272/2008	Concentration limits M-Factor Notes	Concentration (% w/w)
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydro- gen peroxide and tert-	939-692-2	Aquatic Chronic3; H412		>= 1 - < 2,5
dodecanethiol	01-2119983498-16- XXXX			

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

lf i

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- ical attention. Wash off with soap and water.



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In ca	se of eye contact	: Rinse immediately with plenty of water, also under the ex for at least 10 minutes. If eye irritation persists, consult a specialist.	yelids,			
lf swa	allowed	: Move the victim to fresh air. Do not induce vomiting without medical advice.				
4.2 Most	4.2 Most important symptoms and effects, both acute and delayed					
Symp	otoms	: No information available.				
Risks	6	: None known.				
4.3 Indica	ation of any immedia	e medical attention and special treatment needed				
Treat	tment	: No information available.				

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

<b>5.1 Extinguishing media</b> Suitable extinguishing media Unsuitable extinguishing media		Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide. 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) Sulphur oxides
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.

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

6.1 Personal precautions, protect	ctive	e equipment and emergency procedures	
Personal precautions	:	Evacuate personnel to safe areas.	

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



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		(dust). Do not breathe vapours, aerosols. Refer to protective measures listed i	n sections 7 and 8.			
6.2 Envir	onmental precautions					
	onmental precautions	<ul> <li>Try to prevent the material from enter courses.</li> <li>Local authorities should be advised cannot be contained.</li> </ul>	-			
6.3 Metho	ods and material for c	ontainment and cleaning up				
	ods for cleaning up	: Clean up promptly by sweeping or v Keep in suitable, closed containers f				
•••••••	<b>6.4 Reference to other sections</b> For personal protection see section 8.					
SECTION	N 7: Handling and s	orage				
7.1 Preca	utions for safe handli	na				
	e on safe handling	<ul> <li>For personal protection see section Smoking, eating and drinking should plication area.</li> <li>Wash hands and face before breaks handling the product.</li> </ul>	be prohibited in the ap-			
Hygie	ene measures	: Wash face, hands and any exposed handling.	skin thoroughly after			
7 2 Condi	tions for safe storage	, including any incompatibilities				
Requ	irements for storage and containers	<ul> <li>Store in original container. Keep cor use. Keep in a dry, cool and well-ver which are opened must be carefully to prevent leakage. Store in accorda national regulations. Keep in properl</li> </ul>	ntilated place. Containers resealed and kept upright ince with the particular			
7.3 Speci	fic end use(s)					
-	ific use(s)	: Specific instructions for handling, no	t 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:



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Substance name	End Use	Exposure routes	Potential health ef- fects	Value
distillates (petroleum), hydrotreated heavy paraffinic	Workers	Inhalation	Long-term local ef- fects	5,6 mg/m3
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydro- gen peroxide and tert- dodecanethiol	Workers	Inhalation	Long-term systemic effects	4,408 mg/m3
	Workers	Skin contact	Long-term systemic effects	6,25 mg/kg bw/day
bis(4-(1,1,3,3- tetramethyl- butyl)phenyl)amine	Workers	Inhalation	Long-term systemic effects	4,11 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,17 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
distillates (petroleum), hy- drotreated heavy paraffinic	Oral	9,33 mg/kg
1,3,4-Thiadiazolidine-2,5- dithione, reaction products with hydrogen peroxide and tert- dodecanethiol	Fresh water	0,041 mg/l
	Marine water	0,0041 mg/l
	Intermittent use/release	0,41 mg/l
	Microbiological Activity in Sewage Treat- ment Systems	8000 mg/l
	Fresh water sediment	380,62 mg/kg
	Marine sediment	38,06 mg/kg
	Soil	308,98 mg/kg
	Oral	6,67 mg/kg
bis(4-(1,1,3,3- tetramethylbutyl)phenyl)amine	Fresh water	0,00002 µg/l
	Marine water	0,000002 µg/l
	Fresh water sediment	0,00467 mg/kg
	Marine sediment	0,000467 mg/kg
	Soil	0,000934 mg/kg

#### 8.2 Exposure controls

Engineering measures		
none		
Personal protective equipm	nent	
Eye protection	:	Tightly fitting safety goggles
Hand protection		
Material	:	Nitrile rubber
Break through time	:	> 10 min
Protective index	:	Class 1



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R	emarks	:	For prolonged or repeated contact break through time depends amor material, the thickness and the typ has to be measured for each case The selected protective gloves hav tions of Regulation (EU) 2016/425 derived from it.	ngst other things on the be of glove and therefore a. ve to satisfy the specifica-
Resp	iratory protection	:	Not required; except in case of ae	rosol formation.
Filter	type	:	Filter type P	
Prote	ective 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.	of 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	:	paste
Colour	:	beige
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 / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available



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flamm	ability limit			
Vapou	ır pressure	:	< 0,01 hPa (20 °C)	
Relativ	ve vapour density	:	No data available	
Densit	ty	:	0,96 g/cm3 (20 °C)	
Bulk d	lensity	:	No data available	
	ility(ies) ater solubility	:	insoluble	
So	lubility in other solvents	<b>S</b> :	No data available	
	on coefficient: n- ol/water	:	No data available	
Auto-i	gnition temperature	:	No data available	
Decor	nposition temperature	:	No data available	
Viscos Vis	sity scosity, dynamic	:	No data available	
Vis	cosity, kinematic	:	No data available	
Explos	sive properties	:	Not explosive	
Oxidiz	ing properties	:	No data available	
9.2 Other i	information			
Sublin	nation point	:	No data available	
Self-ig	Inition	:	No data available	

#### **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



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Cond	itions to avoid	:	No conditions to be specially ment	ioned.
	npatible materials rials to avoid	:	No materials to be especially ment	tioned.
	rdous decompositio ecomposition if stored	-		
SECTION	11: Toxicologica	l infor	mation	
1.1 Infor	mation on toxicolog	ical ef	fects	
Acute	e toxicity			
Produ Acute	uct: hhalation toxicity	:	Remarks: This information is not av	vailable.
<u>Com</u>	oonents:			
	Thiadiazolidine-2,5- canethiol:	dithio	ne, reaction products with hydrog	en peroxide and tert-
Acute	oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401	
Acute	inhalation toxicity	:	LC50 (Rat): > 2,75 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403 Assessment: The substance or mix tion toxicity Remarks: An LC50/inhalation/4h/ra because no mortality of rats was ob achievable concentration. Information given is based on data stances.	ture has no acute inhala- t could not be determined pserved at the maximum
Acute	e dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mix toxicity Remarks: Information given is base similar substances.	ture has no acute dermal
Skin	corrosion/irritation			
<u>Produ</u> Rema		:	This information is not available.	



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#### Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:

Rabbit
No skin irritation
OECD Test Guideline 404
No skin irritation
:

#### Serious eye damage/eye irritation

#### Product:

Remarks

: This information is not available.

#### **Components:**

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol:

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

#### Respiratory or skin sensitisation

#### Product:

Remarks

: This information is not available.

#### **Components:**

# 1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:

Test Type :	Buehler Test
Species :	Guinea pig
Assessment :	Did not cause sensitisation on laboratory animals.
Method :	OECD Test Guideline 406
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

#### Components:

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tertdodecanethiol:



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	Genote	oxicity in vitro	:	Test Type: In vitro mammalian cell gene Test system: Chinese hamster fibroblast Metabolic activation: with and without me Method: OECD Test Guideline 473 Result: negative Remarks: Information given is based on similar substances.	s etabolic activation
	Germ sessm	cell mutagenicity- As- ent	:	Tests on bacterial or mammalian cell cult mutagenic effects.	tures did not show
	Carcir	nogenicity			
	<u>Produ</u>				
	Remai	rks	:	No data available	
	<u>Comp</u>	onents:			
		Fhiadiazolidine-2,5-d anethiol:	ithio	ne, reaction products with hydrogen pe	roxide and tert-
	Carcin ment	ogenicity - Assess-	:	Not classifiable as a human carcinogen.	
	Renro	ductive toxicity			
	Produ	-			
		s on fertility	:	Remarks: No data available	
	Effects ment	s on foetal develop-	:	Remarks: No data available	
	<u>Comp</u>	onents:			
		Thiadiazolidine-2,5-d anethiol:	ithioı	ne, reaction products with hydrogen pe	roxide and tert-
	Effects	s on fertility	:	Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL: 1.000 General Toxicity F1: NOAEL: 1.000 mg/k Method: OECD Test Guideline 421 Remarks: Information given is based on similar substances.	kg body weight
	Reproo sessm	ductive toxicity - As- ent	:	No toxicity to reproduction Animal testing did not show any effects of ment.	on foetal develop-



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NIUDE	erplex BE 31-222		
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ST	OT - single exposure		
Co	mponents:		
	,4-Thiadiazolidine-2,5-d decanethiol:	ithione, reaction products with hyd	drogen peroxide and tert-
Ass	sessment	: The substance or mixture is no organ toxicant, single exposure	
ST	OT - repeated exposure		
Co	mponents:		
	,4-Thiadiazolidine-2,5-d decanethiol:	ithione, reaction products with hyd	drogen peroxide and tert-
Ass	sessment	: The substance or mixture is no organ toxicant, repeated expos	
Re	peated dose toxicity		
Pro	oduct:		
Rei	marks	: This information is not availabl	е.
Co	mponents:		
	,4-Thiadiazolidine-2,5-d decanethiol:	ithione, reaction products with hyd	drogen peroxide and tert-
	ecies	: Rat	
	AEL olication Route	: 250 mg/kg : Oral	
	thod	: OECD Test Guideline 421	
Rei	marks	: Information given is based on o stances.	data obtained from similar sub-
Asj	piration toxicity		
Pro	oduct:		
Thi	s information is not availa	able.	
Fui	rther information		
Pro	oduct:		
Rei	marks	: Information given is based on the toxicology of similar produc	



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#### **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
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available

**Components:** 

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-	
dodecanethiol:	

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 41 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
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 removabil- ity	:	Remarks: No data available

#### **Components:**

1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol:



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Biode	egradability	:	Test Type: Primary biodegradation Inoculum: activated sludge Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 301	
12.3 Bioa	ccumulative potential			
Prod	uct:			
Bioac	cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substanc persistent and very bioaccumulating	d toxic (PBT). e considered to be very
Com	ponents:			
	-Thiadiazolidine-2,5-d canethiol:	ithio	ne, reaction products with hydrog	gen peroxide and tert-
Bioac	cumulation	:	Species: Fish Bioconcentration factor (BCF): 3,1	6
	ion coefficient: n- ol/water	:	log Pow: 8 (20 °C)	
12.4 Mobi	lity in soil			
Prod	uct:			
Mobil	ity	:	Remarks: No data available	
	bution among environ- al compartments	:	Remarks: No data available	
12.5 Resu	Ilts of PBT and vPvB a	asse	ssment	
Prod	uct:			
Asse	ssment	:	This substance/mixture contains n to be either persistent, bioaccumul very persistent and very bioaccum 0.1% or higher	lative and toxic (PBT), or
12.6 Othe	r adverse effects			
Prod	uct:			
Additi matio	ional ecological infor- n	:	No information on ecology is availa	able.
			12 / 17	a brand of



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#### **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	<ul> <li>Packaging that is not properly emptied must be disposed of as the unused product.</li> <li>Dispose of waste product or used containers according to local regulations.</li> </ul>
	The following Waste Codes are only suggestions:
Waste Code	used product, unused product 12 01 12*, spent waxes and fats
	uncleaned packagings 15 01 10, packaging containing residues of or contaminated by hazardous substances

#### **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 :



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ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good			
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good			
14.5 Environmental hazards					
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 Tran</b> Rema	-	ng to Annex II of Marpol and the IBC Code : Not applicable for product as supplied.			

### **SECTION 15: Regulatory information**

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

	Ŧ					
	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 pollutants (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 o major-accident hazards involving dangerous substances. Not applicable						

Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial
		emissions (integrated pollution prevention and control)
		Not applicable



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#### 15.2 Chemical safety assessment

This information is not available.

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

#### **Further information**

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