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

1.1 Product identifier		
Product name	:	OKS 235
Article-No.	:	
1.2 Relevant identified uses of	the s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Lubricant
Recommended restrictions on use	:	Restricted to professional users.
1.3 Details of the supplier of the	e saf	ety data sheet
Company	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599
E-mail address of person	:	mcm@oks-germany.com

#### 1.4 Emergency telephone number

responsible for the SDS

National contact

Emergency telephone num-	:	+49 8142 3051 517
ber		Warszawa: +48 22 619 66 54

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## **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 calcium bis(dinonylnaphthalenesulphonate);
	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce
	an allergic reaction.



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#### 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 Metal powder

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45- XXXX	Flam. Sol.1; H228		>= 1 - < 10
calcium bis(dinonylnaphthalen esulphonate)	57855-77-3 260-991-2	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317		>= 0,1 - < 1
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7 01-2119492616-28- XXXX	Skin Sens.1B; H317	>= 10 % Skin Sens.1B,	>= 0,1 - < 1
Substances with a work	place exposure limit :			
silicon dioxide	7631-86-9 231-545-4 01-2119379499-16- XXXX	Not classified		>= 1 - < 10
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17- XXXX	Not classified		>= 1 - < 10



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

4.1 Description of first aid measures	S
If inhaled :	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respira- tion.
In case of skin contact :	Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed :	Move the victim to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Allergic appearance
Risks	: May cause an allergic skin reaction.
4.3 Indication of any in	nmediate medical attention and special treatment needed

Treatment	:	The first aid procedure should be established in consultation
		with the doctor responsible for industrial medicine.

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

5.1 Extinguishing media				
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		



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	Unsuita media	able extinguishing	:	High volume water jet	
5.2 S	pecial	hazards arising from	n the	e substance or mixture	
	Specific	-	:	Fire may cause evolution of: Carbon oxides Metal oxides Oxides of phosphorus	
5.3 A	dvice	for firefighters			
	•	l protective equipment ighters	t:	In the event of fire, wear self-con Use personal protective equipme tion products may be a hazard to	ent. Exposure to decomposi-
F	Further	rinformation	:	Standard procedure for chemical	fires.

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

6.1 Personal precautions, protect	tive	e 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). Do not breathe vapours, aerosols. 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

#### 6

Environmental precautions	<ul> <li>Try to prevent the material from entering drains or water courses.</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	:	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 handling

Advice on safe handling : Avoid contact with skin and eyes.



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		For personal protection see section Persons with a history of skin sen ma, allergies, chronic or recurrent not be employed in any process in used. Smoking, eating and drinking sho plication area. Wash hands and face before breat handling the product. Do not get in eyes or mouth or on Do not get on skin or clothing. Do not ingest. Do not repack. These safety instructions also app may still contain product residues Keep container closed when not in	sitisation problems or asth- trespiratory disease should in which this mixture is being uld be prohibited in the ap- aks and immediately after skin.
Hygi	ene measures	: Wash face, hands and any expos handling.	ed skin thoroughly after
Req	litions for safe storag uirements for storage is and containers	<ul> <li>ge, including any incompatibilities</li> <li>Store in original container. Keep ouse. Keep in a dry, cool and well-</li> </ul>	ventilated place. Containers
•	<b>ific end use(s)</b> cific use(s)	<ul> <li>which are opened must be careful to prevent leakage. Store in account national regulations. Keep in prop</li> <li>Specific instructions for handling,</li> </ul>	rdance with the particular erly labelled containers.
Oper		. Opecine manufactions for handling,	

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
silicon dioxide	7631-86-9	NDS (respirable	0,1 mg/m3	PL OEL
		fraction)		(2018-07-07)
Further information			f aerosol that penetrates into	
	tract, which poses a threat to the health of the deposit in the area of gas ex-			
	change, determined in accordance with standard PN-EN 481.			
		TWA (Respirable	0,1 mg/m3	2004/37/EC
		dust)		(2017-12-27)
Further information	Carcinogens or mutagens			
titanium dioxide	13463-67-7	NDS (inhalable	10 mg/m3	PL OEL
		fraction)		(2018-07-07)
Further information	Inhalable fraction - the fraction of aerosol penetrating through the nose and			



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mouth, which after deposit in the respiratory tract poses a threat to health, determined in accordance with standard PN-EN 481., The concentration of the respirable crystalline silica fraction is determined simultaneously
---

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzene, mono-C10- 13-alkyl derivs., distn. residues	Workers	Inhalation	Long-term systemic effects	3,2 mg/m3
	Workers	Skin contact	Long-term systemic effects	4,3 mg/kg bw/day
aluminium powder (stabilised)	Workers	Inhalation	Long-term systemic effects	3,72 mg/m3
	Workers	Inhalation	Long-term local ef- fects	3,72 mg/m3
silicon dioxide	Workers	Inhalation		4 mg/m3
titanium dioxide	Workers	Inhalation	Long-term local ef- fects	10 mg/m3
White mineral oil (pe- troleum)	Workers	Inhalation	Long-term systemic effects	160 mg/m3
	Workers	Skin contact	Long-term systemic effects	220 mg/kg
calcium bis(dinonylnaphthalen esulphonate)	Workers	Inhalation	Long-term systemic effects	2,23 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,32 mg/kg

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

Substance name	Environmental Compartment	Value
Benzene, mono-C10-13-alkyl derivs., distn. residues	Fresh water	0,001 mg/l
· · · · ·	Intermittent use/release	0,001 mg/l
	Marine water	0 mg/l
	Microbiological Activity in Sewage Treat- ment Systems	2 mg/l
	Fresh water sediment	1,65 mg/kg
	Marine sediment	0,165 mg/kg
	Soil	0,329 mg/kg
aluminium powder (stabilised)	Fresh water	0,0749 mg/l
	Sewage treatment plant	20 mg/l
titanium dioxide	Fresh water	0,184 mg/l
	Intermittent use/release	0,193 mg/l
	Marine water	0,0184 mg/l
	Sewage treatment plant	100 mg/l
	Marine sediment	100 mg/l
	Fresh water sediment	1000 mg/l
	Soil	100 mg/l
calcium bis(dinonylnaphthalenesulphonat e)	Fresh water	0,27 mg/l



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Marine water	0,027 mg/l
Intermittent use/release	2,7 mg/l
Microbiological Activity in Sewage Treat-	10 mg/l
ment Systems	-
Fresh water sediment	4,69 mg/kg
Marine sediment	0,469 mg/kg
Soil	0,936 mg/kg

#### 8.2 Exposure controls

Engineering measures none		
Personal protective equipm	nent	
Eye protection	:	Tightly fitting safety goggles
Hand protection Material Protective index	:	butyl-rubber Class 1
Remarks	:	Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.
Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type A-P
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.

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

#### 9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	grey
Odour	:	characteristic
Odour Threshold	:	No data available



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рН	: Not applicable	
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	r : No data available	
Lower explosion limit / Lower flammability limit	r : No data available	
Vapour pressure	: < 0,001 hPa (20 °C)	
Relative vapour density	: No data available	
Density	: 0,98 g/cm3 (20 °C)	
Bulk density	: No data available	
Solubility(ies) Water solubility	: insoluble	
Solubility in other solvents	s : No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: Not explosive	
Oxidizing properties	: No data available	
<b>2 Other information</b> Sublimation point	: No data available	

Sublimation point : No data available



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Metal	corrosion rate	: Not corrosive to metals	
Self-ignition		: not auto-flammable	

## **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				
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.
Acute inhalation toxicity	: Remarks: This information is not	available.
Acute dermal toxicity	: Symptoms: Redness, Local irrita	tion

#### **Components:**

#### aluminium powder (stabilised):

Acute inhalation toxicity	LC50 (Rat): > 5,09 mg/l
	Exposure time: 4 h
	Test atmosphere: dust/mist
	Assessment: The substance or mixture has no acute inhala-
	tion toxicity



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calciu	m bis(dinonyInaph	thalen	esulphonate):	
	oral toxicity		LD50 (Rat): > 5.000 mg/kg	
Acute	dermal toxicity	:	LD50 (Rabbit): > 20.000 mg/kg	
Benze	enesulfonic acid, m	ono-C′	6-24-alkyl derivs., calcium salts:	
Acute	oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401	1
Acute	inhalation toxicity	:	LC50 (Rat): > 1,9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mist tion toxicity	xture has no acute inhala-
Acute	dermal toxicity	:	(Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402 GLP: yes	2
silico	n dioxide:			
Acute	oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 40'	1
Acute	dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg	
titaniu	ım dioxide:			
Acute	oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 407 GLP: yes	1
Acute	inhalation toxicity	:	(Rat): > 5,09 mg/l Method: OECD Test Guideline 403 GLP: no	3
Skin o	corrosion/irritation			
<u>Produ</u>				
Rema	rks	:	This information is not available.	
<u>Comp</u>	onents:			
alumi	nium powder (stabi	lised):		
Specie		:	Rabbit	
Asses Result	sment	:	No skin irritation No skin irritation	
calciu	m bis(dinonyInaph	thalon	sulnhonate).	
Specie			Rabbit	
Opecie		-	Kabbit	



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: e:	<ul> <li>Irritating to skin.</li> <li>Irritating to skin.</li> </ul> <b>C16-24-alkyl derivs., calcium salts:</b> <ul> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> </ul> Rabbit <ul> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> </ul> Rabbit <ul> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> </ul>	
: e:	<ul> <li>P-C16-24-alkyl derivs., calcium salts:</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> </ul>	
: e:	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> </ul>	
le:	<ul> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> </ul>	
le:	<ul> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
le:	<ul> <li>No skin irritation</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
le:	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> </ul> Rabbit <ul> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
le:	<ul> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>No skin irritation</li> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>yes</li> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>Rabbit</li> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>No skin irritation</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	<ul> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> <li>no</li> </ul>	
	: No skin irritation : no	
	: no	
mage/eye irrit	tation	
	: This information is not available.	
/der (stabilise	ed):	
	: Rabbit	
	: No eye irritation	
	: No eye irritation	
onyInaphthal	lenesulphonate):	
	: Rabbit	
	: Irritating to eyes.	
	: Irritating to eyes.	
ic acid, mono	o-C16-24-alkyl derivs., calcium salts:	
	-	
	: OECD Test Guideline 405	
n	nic acid, monc	<ul> <li>Irritating to eyes.</li> <li>nic acid, mono-C16-24-alkyl derivs., calcium salts:         <ul> <li>Rabbit</li> <li>No eye irritation</li> </ul> </li> </ul>



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Spec Asse Meth Resu GLP	essment nod ult	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>OECD Test Guideline</li> <li>No eye irritation</li> <li>yes</li> </ul>	405
titan	ium dioxide:		
Spec Asse Meth Rest	essment nod	<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>OECD Test Guideline</li> <li>No eye irritation</li> </ul>	405
Res	piratory or skin sens	tisation	
	<u>luct:</u> narks	: This information is not	t available.
<u>Corr</u>	ponents:		
alum	ninium powder (stab	lised):	
Spec	cies	: Guinea pig	
Asse Resi	essment ult		ation on laboratory animals. ation on laboratory animals.
calc	ium bis(dinonyInaph	halenesulphonate):	
Spec	cies	: Guinea pig	
Asse Resi	essment ult	: May cause sensitisation: May cause sensitisation:	
Ben	zenesulfonic acid, m	ono-C16-24-alkyl derivs., ca	Icium salts:
		•	
l est	Туре	: Buehler Test	
Spec	cies	: Guinea pig	
Spec	cies essment	: Guinea pig : The product is a skin s	sensitiser, sub-category 1B. sensitiser, sub-category 1B.
Spec Asse Rest	cies essment	: Guinea pig : The product is a skin s	<b>.</b>
Spec Asse Rest <b>silic</b>	cies essment ult on dioxide: essment	: Guinea pig : The product is a skin s	sensitiser, sub-category 1B.
Spec Asse Rest <b>silic</b> Asse Rest	cies essment ult on dioxide: essment	<ul> <li>Guinea pig</li> <li>The product is a skin s</li> <li>The product is a skin s</li> <li>The product is a skin s</li> </ul>	sensitiser, sub-category 1B.
Spec Asse Rest <b>silic</b> Asse Rest	cies essment ult on dioxide: essment ult ium dioxide:	<ul> <li>Guinea pig</li> <li>The product is a skin s</li> <li>The product is a skin s</li> <li>Does not cause skin s</li> <li>Does not cause skin s</li> <li>Mouse</li> </ul>	sensitiser, sub-category 1B. sensitisation. sensitisation.
Spec Asse Resu Asse Resu titan Spec	cies essment ult on dioxide: essment ult hium dioxide: cies essment	<ul> <li>Guinea pig</li> <li>The product is a skin s</li> <li>The product is a skin s</li> <li>Does not cause skin s</li> <li>Does not cause skin s</li> </ul>	sensitiser, sub-category 1B. sensitisation. sensitisation.



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Versi 1.3	on	Revision Date: 07.11.2019		e of last issue: 18.07.2019 e of first issue: 23.06.2016	Print Date: 07.11.2019
	Germ o	cell mutagenicity			
I	Produc	ot:			
(	Genoto	oxicity in vitro	:	Remarks: No data available	
(	Genoto	oxicity in vivo	:	Remarks: No data available	
<u>(</u>	Compo	onents:			
I	Benzei	nesulfonic acid, mor	o-C	16-24-alkyl derivs., calcium salts:	
(	Genoto	oxicity in vitro	:	Test Type: In vitro mammalian cell ger Method: OECD Test Guideline 476 Result: negative	ne mutation test
(	Genoto	oxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Application Route: Oral Method: OECD Test Guideline 474 Result: negative	
	Germ o sessme	cell mutagenicity- As- ent	:	Tests on bacterial or mammalian cell or mutagenic effects.	cultures did not show
:	silicon	dioxide:			
	Germ o sessme	cell mutagenicity- As- ent	:	Tests on bacterial or mammalian cell or mutagenic effects.	cultures did not show
t	titaniu	m dioxide:			
	Germ o sessme	cell mutagenicity- As- ent	:	Tests on bacterial or mammalian cell or mutagenic effects.	cultures did not show
(	Carcin	ogenicity			
-	<b>Produc</b> Remar		:	No data available	
<u>(</u>	Compo	onents:			
				16-24-alkyl derivs., calcium salts:	
	Carcino ment	ogenicity - Assess-	:	Not classifiable as a human carcinoge	n.
:	silicon	dioxide:			
	Carcino ment	ogenicity - Assess-	:	No evidence of carcinogenicity in anim	nal studies.
t	titaniu	m dioxide:			
(	Carcino	ogenicity - Assess-	:	No evidence of carcinogenicity in anim	nal studies.
					a brand of



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ng z.	50			
ersion 3	Revision Date: 07.11.2019		e of last issue: 18.07.2019 e of first issue: 23.06.2016	Print Date: 07.11.2019
ment				
Repr	oductive toxicity			
Prod	uct:			
	ts on fertility	:	Remarks: No data available	
Effect ment	ts on foetal develop-	:	Remarks: No data available	
Com	ponents:			
calci	um bis(dinonylnapht	haler	esulphonate):	
Repro sessr	-	:	No toxicity to reproduction	
Benz	enesulfonic acid, mo	no-C	16-24-alkyl derivs., calcium salts:	
Effec	ts on fertility	:	Test Type: reproductive and devel Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL General Toxicity F1: NOAEL: > 50 Method: OECD Test Guideline 415	: > 500 mg/kg body weight 0 mg/kg body weight
Repro sessr	oductive toxicity - As- nent	:	No toxicity to reproduction No toxicity to reproduction	
silico	on dioxide:			
Repro sessr	oductive toxicity - As- nent	:	No toxicity to reproduction No effects on or via lactation	
titani	um dioxide:			
Repro sessr	oductive toxicity - As- nent	:	No toxicity to reproduction No effects on or via lactation	
STO	Γ - single exposure			
Com	ponents:			
calci	um bis(dinonylnapht	haler	esulphonate):	
Asse	ssment	:	The substance or mixture is not cla organ toxicant, single exposure.	assified as specific target
Benz	enesulfonic acid, mo	no-C	16-24-alkyl derivs., calcium salts:	
Asse	ssment	:	The substance or mixture is not cla organ toxicant, single exposure.	assified as specific target
silico	on dioxide:			
			14/24	a brand of



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UN3 23	) ၂			
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Asses	ssment	:	The substance or mixture is not cla organ toxicant, single exposure.	ssified as specific target
	u <b>m dioxide:</b> ssment	:	The substance or mixture is not cla organ toxicant, single exposure.	ssified as specific target
STOT	- repeated exposure	е		
Comp	oonents:			
calciu	um bis(dinonyInapht	halen	esulphonate):	
	ssment	:	The substance or mixture is not cla organ toxicant, repeated exposure.	
Benzo	enesulfonic acid, mo	ono-C	16-24-alkyl derivs., calcium salts:	
Asses	ssment	:	The substance or mixture is not cla organ toxicant, repeated exposure.	
silico	n dioxide:			
Asses	ssment	:	The substance or mixture is not cla organ toxicant, repeated exposure.	
titani	um dioxide:			
Asses	ssment	:	The substance or mixture is not cla organ toxicant, repeated exposure.	
Repe	ated dose toxicity			
<u>Produ</u>	<u>uct:</u>			
Rema	irks	:	This information is not available.	
Comp	oonents:			
Benze	enesulfonic acid, mo	ono-C	16-24-alkyl derivs., calcium salts:	
	EL EL cation Route sure time		Rat 500 mg/kg 500 mg/kg Oral 28 OECD Test Guideline 407	
Test a	EL		Rat 0,05 mg/l 0,05 mg/l Inhalation dust/mist 28	



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Metho	d	: OECD Test Guideline 412	
	L L ation Route ure time	<ul> <li>Rat</li> <li>&gt; 1000 mg/kg</li> <li>&gt; 1.000 mg/kg</li> <li>Dermal</li> <li>28</li> <li>OECD Test Guideline 410</li> </ul>	

## Aspiration toxicity

#### Product:

This information is not available.

#### **Components:**

## calcium bis(dinonyInaphthalenesulphonate):

No aspiration toxicity classification

#### silicon dioxide:

No aspiration toxicity classification

#### titanium dioxide:

No aspiration toxicity classification

#### **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:

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



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## Components:

aluminium powder (stabilised	):
Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): 0,12 mg/l Exposure time: 96 h Test Type: static test
	Remarks: No toxicity at the limit of solubility
Ecotoxicology Assessment	
Acute aquatic toxicity :	This product has no known ecotoxicological effects.
Chronic aquatic toxicity :	This product has no known ecotoxicological effects.
calcium bis(dinonylnaphthale	nesulphonate):
Toxicity to fish :	LC50 (Cyprinus carpio (Carp)): > 0,28 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 0,27 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Ecotoxicology Assessment	
Chronic aquatic toxicity :	This product has no known ecotoxicological effects.
Benzenesulfonic acid, mono-(	C16-24-alkyl derivs., calcium salts:
Toxicity to fish :	LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 1.000 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.500 mg/l Exposure time: 72 h Test Type: Growth inhibition Remarks: No toxicity at the limit of solubility
Toxicity to microorganisms :	LC50 (activated sludge): > 10.000 mg/l Exposure time: 3 h



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			Test Type: Respiration inhibition Method: OECD Test Guideline 209	
Ecot	oxicology Assessmen	t		
Chro	nic aquatic toxicity	:	This product has no known ecotoxicolo ty at the limit of solubility	gical effects., No toxici-
silico	on dioxide:			
Toxic	to fish	:	LC50 (Brachydanio rerio (zebrafish)): > Exposure time: 96 h Method: OECD Test Guideline 203	• 10.000 mg/l
titani	ium dioxide:			
Toxic	ty to fish	:	LC50 (Oncorhynchus mykiss (rainbow Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203	trout)): > 100 mg/l
	tity to daphnia and othe tic invertebrates	r:	LC50 (Daphnia magna (Water flea)): > Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	100 mg/l
12.2 Pers	istence and degradab	ility		
Prod	uct:			
	egradability	:	Remarks: No data available	
Phys ity	ico-chemical removabil-	• :	Remarks: No data available	
<u>Com</u>	ponents:			
calci	um bis(dinonylnaphth	alen	esulphonate):	
	egradability		Result: Not readily biodegradable.	
Benz	enesulfonic acid. mor	10-C	16-24-alkyl derivs., calcium salts:	
	egradability		Test Type: aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 8 % Exposure time: 28 d Method: OECD Test Guideline 301D	



GLP: yes

Method: OECD Test Guideline 301D

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12.3 Bioa	ccumulative potent	ial		
Prod	luct:			
Bioad	ccumulation	:	Remarks: This mixture contains n	o substance considered to

oounnalation	•	
		be persistent, bioaccumulating and toxic (PBT).
		This mixture contains no substance considered to be very
		persistent and very bioaccumulating (vPvB).

#### **Components:**

#### calcium bis(dinonyInaphthalenesulphonate):

Partition coefficient: n-	:	log Pow: 10,96
octanol/water		

#### Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts:

Bioaccumulation	:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.
Partition coefficient: n- octanol/water	:	log Pow: 16,09 (25 °C)

#### 12.4 Mobility in soil

|--|

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
Components:	
calcium bis(dinonyInaphthale	nesulphonate):
Assessment :	Non-classified PBT substance. Non-classified vPvB sub- stance.
silicon dioxide:	
Assessment :	Non-classified vPvB substance. Non-classified PBT sub- stance.
titanium dioxide:	



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Assessment		:	: Non-classified vPvB substance. Non-classified PBT sub- stance.			
12.6 Other	adverse effects					
<u>Produ</u> Additio matior	onal ecological infor-	:	No information on ecology is available.			

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>The product should not be allowed to enter drains, water courses or the soil.</li> <li>Do not dispose of with domestic refuse.</li> <li>Dispose of as hazardous waste in compliance with local and national regulations.</li> </ul>
	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:

## **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



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ΙΑΤΑ		: Not regulated as a dangerous good			
14.4 Pack	king group				
ADR		: Not regulated as a dangerous good			
IMDO	6	: Not regulated as a dangerous good			
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good			
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good	Not regulated as a dangerous good		
14.5 Envi	ronmental hazards				
ADR		: 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			
•	cial precautions for unplicable	Iser			
14.7 Tran	sport in bulk accord	ing to Annex II of Marpol and the IBC Cod	e		
Rema	arks	: Not applicable for product as supplied	d.		

## **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 (EC) No 850/2004 on persistent organic pol- lutants: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 applicable	-		
REACH - List of substances subject to authorisation (Annex XIV)Not applicableRegulation (EC) No 1005/2009 on substances that deplete the ozone layerNot applicableRegulation (EC) No 850/2004 on persistent organic pollutantsNot applicableRegulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicalsNot applicableREACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,Not applicable		:	stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH),
plete the ozone layer	•	:	
Iutants         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,       Not applicable	<b>o</b>	:	Not applicable
ment and the Council concerning the export and import of dangerous chemicals REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,		:	Not applicable
the market and use of certain dangerous substances,	ment and the Council concerning the export and import	:	Not applicable
	the market and use of certain dangerous substances,	:	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.



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Not applicable

Volatile organic compounds :

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

## Other regulations:

Act of 25 February 2011 on the Chemical Substances and Their Mixtures (consolidated text Dz. U. 2015, item 1203).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP 1-7).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).

Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. Nr. 259, item 2173). Ordinance of the Minister of Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (OJ 2018 pos 1286)

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166).

Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended).

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended). Act of 13 June 2013. On packaging and packaging waste Journal. U. of 2013. Item. 888, as

amended). Ordinance of the Minister of Environment of 9th December 2014 on Waste Catalog (Dz. U. 2014 item 1923).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of 26 July 2005 on enforcing of changes Annexes A and B of European Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. Nr. 178, item 1481, as amended).

Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450).



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Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

#### 15.2 Chemical safety assessment

This information is not available.

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

Full taxt of LL Ctatements

Full text of H-Statements		
H228	:	Flammable solid.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.

Full text of other abbreviations

2004/37/EC	:	Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
PL OEL	:	Poland. Occupational exposure limits for airborne toxic sub- stances
2004/37/EC / TWA PL OEL / NDS		Long term exposure limit Maximal Admissible Concentration

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



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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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