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

1.1	Product identifier Product name	:	OKS 2301		
1.2	Relevant identified uses of th	ne s	ubstance o	r mixture and uses advised against	
	Use of the Sub- stance/Mixture	:	Anticorrosi	-	
	Recommended restrictions on use	:	Restricted	to professional users.	
1.3	Details of the supplier of the	saf	etv data sh	eet	
_	Company	:	OKS Spez Ganghofer D-82216 M Tel.: +49 8 Fax.: +49 8	alschmierstoffe GmbH	
	E-mail address of person responsible for the SDS	:		-germany.com ompliance Management	
	National contact	:			
1.4	1.4 Emergency telephone number Emergency telephone num- : +34 91 562 04 20 ber				
SEC	CTION 2: Hazards identific	atio	on		
2.1 (	Classification of the substan	ce d	or mixture		
	Classification (REGULATIO			2/2008)	
	Aerosols, Category 1		-	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.	
	Specific target organ toxicity - single ex- posure, Category 3, Central nervous system				

H304: May be fatal if swallowed and enters airways.



Aspiration hazard, Category 1

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Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)         Hazard pictograms       :					
Signal word	:	Danger			
Hazard statements	:	H222 H229 H304 H336	Extremely flammable aerosol. Pressurised container: May burst if heated. May be fatal if swallowed and enters air- ways. May cause drowsiness or dizziness.		
Supplemental Hazard Statements	:	H411 EUH066	Toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness or cracking.		
Precautionary statements	:	Prevention:         P210         P211         P251         P273         Response:         P301 + P310         P331         Storage:         P410 + P412	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Do NOT induce vomiting. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.		

### Hazardous components which must be listed on the label:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

#### **Additional Labelling**

EUH208 Contains calcium bis(dinonylnaphthalenesulphonate). 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.

Ecological information: The substance/mixture does not contain components considered 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.

Toxicological information: The substance/mixture does not contain components considered 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.

### **SECTION 3: Composition/information on ingredients**

5

#### 3.2 Mixtures

Chemical nature

Active substance with propellant Solvent

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concen- tration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
Hydrocarbons, C9- C11, n-alkanes, isoal- kanes, cyclics, <2% aromatics	265-150-3 01-2119463258-33	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411; EUH066	Note P	>= 30 - < 50
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

# Components



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Substances with a wor	kplace exposure limit :			
butane	106-97-8 203-448-7 601-004-00-0	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 30 - < 50
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1)	>= 1 - < 10
isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 1 - < 10
Paraffin waxes and Hydrocarbon waxes	8002-74-2 232-315-6	Not classified		>= 1 - < 10

For explanation of abbreviations see section 16.

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

### 4.1 Description of first aid measures

If inhaled	:	Call a physician or poison control centre immediately. 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. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Wash skin thoroughly with soap and water or use recognized skin cleanser.



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In cas	e of eye contact	: Rinse immediately with plenty of for at least 10 minutes. Seek medical advice.	water, also under the eyelids			
If swallowed		Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water.	If accidentally swallowed obtain immediate medical attention. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water. Aspiration hazard if swallowed - can enter lungs and cause			
4.2 Most i	mportant symptom	s and effects, both acute and delayed				
Symptoms		<ul> <li>Inhalation may provoke the follow Unconsciousness</li> <li>Dizziness</li> <li>Drowsiness</li> <li>Headache</li> <li>Nausea</li> <li>Tiredness</li> <li>Skin contact may provoke the fol</li> <li>Erythema</li> <li>Allergic appearance</li> </ul>				
		Aspiration may cause pulmonary	oedema and pneumonitis.			
		: Central nervous system depress				

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

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media	:	ABC powder
Unsuitable extinguishing media	:	High volume water jet

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

Specific hazards during fire-	:	Fire Hazard
fighting		Do not let product enter drains.



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			Contains gas under pressure; ma Beware of vapours accumulating tions. Vapours can accumulate in	to form explosive concentra-
Haz	ardous combustion prod	- :	Carbon oxides	
5.3 Advi	ce for firefighters			
	cial protective equipmen irefighters	t :	In the event of fire, wear self-cont Use personal protective equipme tion products may be a hazard to	nt. Exposure to decomposi-
Fur	her information	:	Standard procedure for chemical Collect contaminated fire extingui must not be discharged into drain Cool containers/tanks with water	ishing water separately. This ns.

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

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Evacuate personnel to safe areas.
	Ensure adequate ventilation.
	Remove all sources of ignition.
	Do not breathe vapours or spray mist.
	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Refer to protective measures listed in sections 7 and 8.
	Only qualified personnel equipped with suitable protective
	equipment may intervene.
6.2 Environmental precautions	
Environmental precautions :	Do not allow contact with soil, surface or ground water.
	Prevent further leakage or spillage if safe to do so.
	If the product contaminates rivers and lakes or drains inform respective authorities.
	respective autionities.
6.3 Methods and material for contai	nment and cleaning up
Methods for cleaning up :	Contain spillage, and then collect with non-combustible ab-
5 1	sorbent material, (e.g. sand, earth, diatomaceous earth, ver-
	miculite) and place in container for disposal according to local
	/ national regulations (see section 13).
	Keep in suitable, closed containers for disposal. Non-sparking tools should be used.
	Non spanning tools should be used.

### 6.4 Reference to other sections

For personal protection see section 8.



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

### 7.1 Precautions for safe handling

Advice on safe handling :	Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Keep away from fire, sparks and heated surfaces. Persons with a history of skin sensitisation problems or asth- ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not use sparking tools. These safety instructions also apply to empty packaging which may still contain product residues. Pressurized container: protect from sunlight and do not ex- pose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.
Hygiene measures :	Wash face, hands and any exposed skin thoroughly after handling.
7.2 Conditions for safe storage, inclu	uding any incompatibilities
Requirements for storage : areas and containers	BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular na- tional regulations.
7.3 Specific end use(s)	

Specific use(s)

: Specific instructions for handling, not required.

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

### 8.1 Control parameters

### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
		/		



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butane	106-97-8	VLA-ED (gas)	1.000 ppm	ES VLA (2013-02-22)
propane	74-98-6	VLA-ED	1.000 ppm	ES VLA (2011-03-03)
isobutane	75-28-5	VLA-ED (gas)	1.000 ppm	ES VLA (2013-02-22)
Paraffin waxes and Hydrocarbon wax- es	8002-74-2	VLA-ED (Fumes)	2 mg/m3	ES VLA (2013-02-22)

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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
calcium	Fresh water	0,27 mg/l
bis(dinonyInaphthalenesulphonat		
e)		
	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**

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### Personal protective equipment

· · · · · · · · · · · · · · · · · ·		
Eye protection	:	Safety glasses with side-shields
Hand protection Material Break through time Protective index	:	Nitrile rubber > 10 min Class 1
Remarks	:	Wear protective gloves. 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. The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374



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			derived from it.	
Skir	and body protection	:	Choose body protection in relation to tration and amount of dangerous su cific work-place.	
Res	piratory protection	:	Use respiratory protection unless ac tilation is provided or exposure asse exposures are within recommended Short term only	essment demonstrates that
F	Filter type	:	Filter type A-P	
Prot	ective measures	:	The type of protective equipment me to the concentration and amount of at the specific workplace.	

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

### 9.1 Information on basic physical and chemical properties

Physical state	:	aerosol
Colour	:	green
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	-161 °C (1.013 hPa)
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	10,9 %(V)
Lower explosion limit / Lower flammability limit	:	0,6 %(V)
Flash point	:	-60 °C Method: Abel-Pensky
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	Not applicable



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			substance/mixture is non-soluble	(in water)
	osity ⁄iscosity, dynamic	:	No data available	
V	iscosity, kinematic	:	< 20,5 mm2/s (40 °C)	
Solu	bility(ies) Vater solubility	:	insoluble	
S	Solubility in other solvents	s :	No data available	
	ition coefficient: n- nol/water	:	No data available	
Vap	our pressure	:	3.700 hPa (20 °C)	
Rela	tive density	:	0,67 (20 °C) Reference substance: Water The value is calculated	
Den	sity	:	0,67 g/cm3 (20 °C)	
Bulk	density	:	No data available	
Rela	tive vapour density	:	No data available	
9.2 Othe	r information			
Expl	osives	:	Not explosive	
Oxic	lizing properties	:	No data available	
Self	ignition	:	No data available	
Meta	al corrosion rate	:	Not corrosive to metals	
Eva	poration rate	:	No data available	
Sub	limation point	:	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 dar	gerous reaction known under conditions of normal use.
------------------------------	---

### 10.4 Conditions to avoid

- Conditions to avoid
- : Heat, flames and sparks. Strong sunlight for prolonged periods. Risk of receptacle bursting.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### **10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

### Product:

Acute oral toxicity	:	Remarks: Effects due to ingestion may include:
		Symptoms: Central nervous system depression
Acute inhalation toxicity	:	Remarks: Respiration of solvent vapour may cause dizziness. Irritating to respiratory system.
		Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder, Local irritation, Respiratory disorders, Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central nervous system depression
Acute dermal toxicity	:	Remarks: Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.
		Symptoms: Redness, Local irritation, Skin disorders

### Components:

Acute inhalation toxicity : Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.



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		<b>_</b>		<b>-</b> • · · -
sion	Revision Date: 29.07.2022	Date of last issue: 10.0 Date of first issue: 22.0		Print Date: 01.08.2022
calciu	m bis(dinonylnaph	halenesulphonate):		
Acute	oral toxicity	: LD50 (Rat): > 5.00	00 mg/kg	
Acute	dermal toxicity	: LD50 (Rabbit): > 2	20.000 mg/kg	
Benze	enesulfonic acid, m	no-C16-24-alkyl derivs.	, calcium salts	:
Acute	oral toxicity	: LD50 (Rat): > 5.00 Method: OECD Te		1
Acute	inhalation toxicity	: LC50 (Rat): > 1,9 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	n dust/mist	ixture has no acute inhala-
Acute	dermal toxicity	: (Rabbit): > 5.000 Method: OECD Te GLP: yes		2
butan	e:			
Acute	inhalation toxicity	: LC50 (Rat): 658 n Exposure time: 4 Test atmosphere:	า	
isobut	tane:			
Acute	inhalation toxicity	: LC50 (Rat): 658 n Exposure time: 4 Test atmosphere:	า้	
Skin c	corrosion/irritation			
<u>Produ</u>	ict:			
Remai	rks	: This information is	not available.	
<u>Comp</u>	onents:			
		alkanes isoalkanes ov	clice <2% arou	matics:
Hydro	carbons, C9-C11, r	aranes, isoaranes, cy	ciics, <2 /0 ai 0	
<b>Hydro</b> Result				kin dryness or cracking.
Result	t i i i i			
Result calciu Specie	m bis(dinonylnaph es	: Repeated exposu halenesulphonate): : Rabbit		
Result	m bis(dinonyInaph es sment	: Repeated exposu		
Result calciu Specie Assess Result	m bis(dinonylnaph es sment	: Repeated exposu halenesulphonate): : Rabbit : Irritating to skin. : Irritating to skin.	re may cause sl	kin dryness or cracking.
Result calciu Specie Assess Result Benze	m bis(dinonyInaph es sment t enesulfonic acid, m	: Repeated exposu halenesulphonate): : Rabbit : Irritating to skin. : Irritating to skin. no-C16-24-alkyl derivs.	re may cause sl	kin dryness or cracking.
Result calciu Specie Assess Result	m bis(dinonyInaph es sment enesulfonic acid, m es	: Repeated exposu halenesulphonate): : Rabbit : Irritating to skin. : Irritating to skin.	re may cause sl	kin dryness or cracking.



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sion Revision Date: 29.07.2022	Date of last issue: 10.08.2018Print Date:Date of first issue: 22.06.201601.08.2022	
Result	: No skin irritation	
Serious eye damage/e	eye irritation	
Product:		
Remarks	: Contact with eyes may cause irritation.	
Components:		
calcium bis(dinonylna	phthalenesulphonate):	
Species	: Rabbit	
Assessment	: Irritating to eyes.	
Result	: Irritating to eyes.	
Benzenesulfonic acid,	, mono-C16-24-alkyl derivs., calcium salts:	
Species	: Rabbit	
Assessment	: No eye irritation	
Method	: OECD Test Guideline 405	
Result	: No eye irritation	
Respiratory or skin se	ensitisation	
Product:		
Remarks	: This information is not available.	
Components:		
calcium bis(dinonylna	phthalenesulphonate):	
Species	: Guinea pig	
Assessment	: May cause sensitisation by skin contact.	
Result	: May cause sensitisation by skin contact.	
Benzenesulfonic acid,	, mono-C16-24-alkyl derivs., calcium salts:	
Test Type	: Buehler Test	
<b>•</b> ·	: Guinea pig	
Species	: The product is a skin sensitiser, sub-category 1B.	
Assessment		
	: The product is a skin sensitiser, sub-category 1B.	
Assessment	: The product is a skin sensitiser, sub-category 1B.	
Assessment Result	: The product is a skin sensitiser, sub-category 1B.	
Assessment Result Germ cell mutagenicity	: The product is a skin sensitiser, sub-category 1B.	
Assessment Result Germ cell mutagenicity Product:	: The product is a skin sensitiser, sub-category 1B.	
Assessment Result Germ cell mutagenicity <u>Product:</u> Genotoxicity in vitro	<ul> <li>The product is a skin sensitiser, sub-category 1B.</li> <li>xy</li> <li>Remarks: No data available</li> </ul>	



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ersion 1	Revision Date: 29.07.2022		e of last issue: 10.08.2018 e of first issue: 22.06.2016	Print Date: 01.08.2022
Geno	toxicity in vitro	:	Test Type: In vitro mammalian cel Method: OECD Test Guideline 47 Result: negative	
Geno	toxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Application Route: Oral Method: OECD Test Guideline 47 Result: negative	4
Germ sessn	cell mutagenicity- As- nent	:	Tests on bacterial or mammalian of mutagenic effects.	cell cultures did not show
Carci	nogenicity			
<u>Produ</u> Rema			Na data available	
Rema	IIKS	•	No data available	
<u>Comp</u>	oonents:			
Benzo	enesulfonic acid, moi	no-C	16-24-alkyl derivs., calcium salts:	:
Carcir ment	nogenicity - Assess-	:	Not classifiable as a human carcir	nogen.
Repro	oductive toxicity			
Produ	uct:			
Effect	s on fertility	:	Remarks: No data available	
Effect ment	s on foetal develop-	:	Remarks: No data available	
<u>Comp</u>	oonents:			
calciu	um bis(dinonylnaphth	alen	esulphonate):	
	oductive toxicity - As-			
sessn	nent		No toxicity to reproduction	
Benzo	enesulfonic acid, moi	no-C	16-24-alkyl derivs., calcium salts:	:
Effect	s on fertility	:	Test Type: reproductive and deve Species: Rat Application Route: Oral General Toxicity - Parent: NOAEL General Toxicity F1: NOAEL: > 50 Method: OECD Test Guideline 41	.: > 500 mg/kg body weight 00 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	- Fertility - No toxicity to reproduction	



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			- Teratogenicity -	
			No toxicity to reproduction	
STO	T - single exposure			
<u>Com</u>	ponents:			
Hydr	ocarbons, C9-C11,	n-alkan	es, isoalkanes, cyclics, <2% aro	matics:
Expo	sure routes	:	Inhalation	
	ssment	:	The substance or mixture is class toxicant, single exposure, categor	
calci	um bis(dinonylnapl	nthalen	esulphonate):	
Asse	ssment	:	The substance or mixture is not corgan toxicant, single exposure.	lassified as specific target
Benz	enesulfonic acid, m	nono-C <sup>2</sup>	16-24-alkyl derivs., calcium salts	:
Asse	ssment	:	The substance or mixture is not c organ toxicant, single exposure.	lassified as specific target
STO	T - repeated exposu	ire		
<u>Com</u>	ponents:			
calci	um bis(dinonylnapl	nthalen	esulphonate):	
Asse	ssment	:	The substance or mixture is not c organ toxicant, repeated exposur	
Benz	enesulfonic acid, n	nono-C	16-24-alkyl derivs., calcium salts	:
Asse	ssment	:	The substance or mixture is not c organ toxicant, repeated exposur	
Repe	eated dose toxicity			
Prod	uct:			
Rema	arks	:	This information is not available.	
Com	ponents:			
Benz	enesulfonic acid, m	nono-C	16-24-alkyl derivs., calcium salts	:
Spec		:	Rat	
NOA		:	500 mg/kg	
NOAI		:	500 mg/kg	
	cation Route	:	Oral	
Expo	sure time od	:	28 OECD Test Guideline 407	
Spec	631	•	Rat	
				a brand of



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Test Expo Meth Spec NOA NOA Appli	EL cation Route atmosphere sure time od ies EL EL EL cation Route sure time	<ul> <li>0,05 mg/l</li> <li>0,05 mg/l</li> <li>Inhalation</li> <li>dust/mist</li> <li>28</li> <li>OECD Test Guideline 412</li> <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>	
Weth			

#### Aspiration toxicity

#### Product:

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

#### **Components:**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics: May be fatal if swallowed and enters airways.

#### calcium bis(dinonyInaphthalenesulphonate):

No aspiration toxicity classification

#### 11.2 Information on other hazards

#### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered 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.

#### **Further information**

#### Product:

Remarks

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

### Components:

#### Paraffin waxes and Hydrocarbon waxes:

Remarks

: Information given is based on data on the components and



according to Regulation (EC) No. 1907/2006 - ES (Commission Regulation (EU) 2020/878)



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the toxicology of similar products.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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:**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:
--

Ecotoxicology Assessment		
Acute aquatic toxicity	:	Toxic to aquatic life.
Chronic aquatic toxicity	:	Toxic to aquatic life with long lasting effects.
calcium bis(dinonyInaphthale	ene	esulphonate):
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-	-C1	6-24-alkyl derivs., calcium salts:
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 10.000 mg/l Exposure time: 96 h



Test Type: static test

according to Regulation (EC) No. 1907/2006 - ES (Commission Regulation (EU) 2020/878)



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			Method: OECD Test Guideline 203 Remarks: No toxicity at the limit of so	lubility
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of so	-
Toxic plant	ity to algae/aquatic s	:	EC50 (Pseudokirchneriella subcapita 1.500 mg/l Exposure time: 72 h Test Type: Growth inhibition Remarks: No toxicity at the limit of so	
Τοχία	ity to microorganisms	:	LC50 (activated sludge): > 10.000 mg Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209	g/l
Ecot	oxicology Assessment	t		
	nic aquatic toxicity	:	This product has no known ecotoxico ty at the limit of solubility	logical effects., No toxio
2.2 Pers	istence and degradabi	lity		
<u>Prod</u>	uct:			
Biode	egradability	:	Remarks: No data available	
Phys ity	ico-chemical removabil-	:	Remarks: No data available	
<u>Com</u>	ponents:			
calci	um bis(dinonyInaphtha	alen	esulphonate):	
Biode	egradability	:	Result: Not readily biodegradable.	
Benz	enesulfonic acid, mon	o-C	16-24-alkyl derivs., calcium salts:	
Biode	egradability	:	Test Type: aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 8 % Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes	
2.3 Bioa	ccumulative potential			
Prod	uct:			
<u></u>				

Bioaccumulation : Remarks: This mixture contains no substance considered to





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		٦	e persistent, bioaccumulating an This mixture contains no substand persistent and very bioaccumulati	ce considered to be very
<u>Com</u>	ponents:			
calci	um bis(dinonylnaph	thalenes	ulphonate):	
	tion coefficient: n- nol/water	: 6	og Pow: 10,96	
Benz	zenesulfonic acid, m	ono-C16	-24-alkyl derivs., calcium salts	:
Bioad	ccumulation		Remarks: Due to the distribution of a communication in organisms is pos	
	tion coefficient: n- nol/water	: 1	og Pow: 16,09 (25 °C)	
buta	ne:			
	tion coefficient: n- nol/water		og Pow: 2,89 /lethod: OECD Test Guideline 10	)7
prop	ane:			
	tion coefficient: n- nol/water	: 1	og Pow: 2,36	
isob	utane:			
	tion coefficient: n- nol/water		og Pow: 2,88 /lethod: OECD Test Guideline 10	)7
12.4 Mob	ility in soil			
Prod	luct:			
Mobi	lity	: F	Remarks: No data available	
	ibution among enviror al compartments	n- : F	Remarks: No data available	
12.5 Resu	ults of PBT and vPvI	B assess	ment	
Prod	luct:			
Asse	ssment	t	This substance/mixture contains r to be either persistent, bioaccumu	ulative and toxic (PBT), or

**Components:** 

calcium bis(dinonyInaphthalenesulphonate):



0.1% or higher.

very persistent and very bioaccumulative (vPvB) at levels of

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Asse	ssment	: Non-classified PBT substance. Non-classified v	PvB substance	
12.6 Endo	ocrine disrupting pro	erties		
Prod	uct:			
Asse	ssment	<ul> <li>The substance/mixture does not contain comporered to have endocrine disrupting properties accession REACH Article 57(f) or Commission Delegated (EU) 2017/2100 or Commission Regulation (EU) levels of 0.1% or higher.</li> </ul>	cording to regulation	
12.7 Othe	r adverse effects			
<u>Prod</u> Addit matic	ional ecological infor-	: Toxic to aquatic life with long lasting effects.		

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods		
Product	: Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.	
	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>Offer empty spray cans to an established disposal company.</li> <li>Pressurized container: Do not pierce or burn, even after use.</li> </ul>	\$
	The following Waste Codes are only suggestions:	
Waste Code	<ul> <li>unused product, packagings not completely emptied 16 05 04*, gases in pressure containers (including halons) containing hazardous substances</li> </ul>	

## **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADR	:	UN 1950
RID	:	UN 1950
IMDG	:	UN 1950



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ΙΑΤΑ	ι.	:	UN 1950	
14.2 UN p	proper shipping name			
ADR		:	AEROSOLS	
RID		:	AEROSOLS	
IMDO	3	:	AEROSOLS (Naphtha, petroleum, hydrotreated heav	/y)
ΙΑΤΑ	L Contraction of the second seco	:	Aerosols, flammable	
14.3 Tran	sport hazard class(es)			
ADR		:	2	
RID		:	2	
IMDO	3	:	2.1	
ΙΑΤΑ	L .	:	2.1	
14.4 Pack	king group			
Class Labe	ing group sification Code	: : : :	Not assigned by regulation 5F 2.1 (D)	
Class	ing group sification Code Ird Identification Number Is	: : r : :	Not assigned by regulation 5F 23 2.1	
Labe	ing group	:	Not assigned by regulation 2.1 F-D, S-U	
	( <b>Cargo)</b> ing instruction (cargo	:	203	
Pack	ing instruction (LQ) ing group	:	Y203 Not assigned by regulation Flammable Gas	
Pack	(Passenger) ing instruction (passen- ircraft)	:	203	
Pack	ing instruction (LQ) ing group	:	Y203 Not assigned by regulation Flammable Gas	
14.5 Envi	ronmental hazards			
<b>ADR</b> Envir	onmentally hazardous	:	yes	
				a brand of



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### RID

Environmentally hazardous	:	yes	
IMDG			
Marine pollutant	:	yes	

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Remarks
---------

: Not applicable for product as supplied.

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

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)	:	This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH),
REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV)	:	Article 57). Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009)	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast) (EU POP)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals (EU PIC)	:	Not applicable
: P2		
Seveso III: Directive 2012/18/EU of the European P3a Parliament and of the Council on the control of major-accident hazards involving dangerous sub- stances.	a	FLAMMABLE AEROSOLS



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#### E2 ENVIRONMENTAL HAZARDS

- 34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)
- 18 Liquefied extremely flammable gases (including LPG) and natural gas
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 90,91 %

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### 15.2 Chemical safety assessment

This information is not available.

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

#### Full text of H-Statements

EUH066	:	Repeated exposure may cause skin dryness or cracking.
H220	:	Extremely flammable gas.
H226	:	Flammable liquid and vapour.
H280	:	Contains gas under pressure; may explode if heated.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H411	:	Toxic to aquatic life with long lasting effects.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations



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Note C	:	Some organic substances may be marketed either in a specif- ic isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the sub- stance is a specific isomer or a mixture of isomers.
Note P	:	The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regula- tion shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.
Note U (table 3.1)	:	When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).
ES VLA	:	Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values
ES VLA / VLA-ED	:	Environmental Daily Limit Value

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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



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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; TECI -Thailand Existing Chemicals 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

Classification of the mixtur	Classification procedure:	
Aerosol 1	H222, H229	Calculation method
STOT SE 3	H336	Calculation method
Asp. Tox. 1	H304	Based on product data or assessment
Aquatic Chronic 2	H411	Calculation method

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