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

1 1	Product identifier		
1.1	Product name	:	OKS 490
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Grease
	Recommended restrictions on use	:	Restricted to professional users.
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599 info@oks-germany.com
	E-mail address of person responsible for the SDS	:	mcm@oks-germany.com Material Compliance Management
	National contact	:	
1.4	Emergency telephone number	ər	
			CIAV - Information Centre of Antipoison (+351) 800 250 250 (free 24/7 service)

#### **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



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EUH2	EUH210 Safety data sheet available on request.			
			butyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio allergic reaction.	o]succinate. May

## 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**

#### 3.2 Mixtures

Chemical nature

: Mineral oil. aluminium soap graphite

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concen- tration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
Fatty acids, C16-18 and C18-unsatd., Me esters, sulfurized	68390-93-2 269-913-1	Aquatic Chronic3; H412		>= 2,5 - < 10
dibutyl [[bis[(2- ethylhex- yl)oxy]phosphinothioyl ]thio]succinate	68413-48-9 270-220-1 01-2120786863-37- XXXX	Skin Sens.1B; H317 Aquatic Chronic4; H413		>= 0,25 - < 1
Substances with a work	place exposure limit :			
residual oils (petrole- um), solvent-dewaxed	64742-62-7 265-166-0	Not classified		>= 50 - < 70
			Note L	



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		649-471-00-X 01-2119480472-38- xxxx				
Asphalt		8052-42-4 232-490-9 01-2119480172-44- XXXX	Not classified		>= 10 - < 20	
Graphite		7782-42-5 231-955-3	Not classified		>= 1 - < 10	
Fatty acid (even nur aluminium		939-582-4	Not classified		>= 1 - < 10	
		01-2119978504-28- XXXX				

For explanation of abbreviations see section 16.

# **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

If inhaled	:	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If 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.



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	Keep respiratory tract clear	
	Do not induce vomiting with	out medical advice.
	Never give anything by mou	th to an unconscious person.
nportant symptom	s and effects, both acute and dela	yed
toms	: Allergic appearance	
	: May cause an allergic skin r	eaction.
ion of any immedi	ate medical attention and special t	reatment needed
nent	: The first aid procedure shou with the doctor responsible f	Id be established in consultatior for industrial medicine.
t	07.11.2022	07.11.2022       Date of first issue: 08.06.2016         Keep respiratory tract clear. Do not induce vomiting with Never give anything by mouting mportant symptoms and effects, both acute and delated isoms         ion of any immediate medical attention and special to nent         ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention and special to ion of any immediate medical attention attent

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media				
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or car- bon dioxide.		
Unsuitable extinguishing media	:	High volume water jet		
		High volume water jet		
5.2 Special hazards arising from the substance or mixture				
Hazardous combustion prod- ucts	:	Carbon oxides Sulphur oxides Oxides of phosphorus Metal 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, protective 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.		



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Refer to protective measures listed in sections 7 and 8.

#### **6.2 Environmental precautions**

Environmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	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	<ul> <li>Avoid contact with skin and eyes. For personal protection see section 8. Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Wash hands and face before breaks and immediately after handling the product.</li> <li>Do not get in eyes or mouth or on skin.</li> <li>Do not get on skin or clothing.</li> <li>Do not repack.</li> <li>These safety instructions also apply to empty packaging which may still contain product residues.</li> <li>Keep container closed when not in use.</li> </ul>
Hygiene measures	: Wash face, hands and any exposed skin thoroughly after handling.
7.2 Conditions for safe storage, i	including any incompatibilities

Requirements for storage areas and containers Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

#### 7.3 Specific end use(s)



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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
residual oils (petro- leum), solvent- dewaxed	64742-62-7	VLE-MP (Inhala- ble fraction)	5 mg/m3	PT OEL (2014-11-14)
	Further inform humans.	nation: Substances th	nat are not classified as car	cinogenic for
Asphalt	8052-42-4	VLE-MP (Inhala- ble fume)	0,5 mg/m3	PT OEL (2014-11-14)
	Further information: Substances that are not classified as carcinogenic for humans.			
Graphite	7782-42-5	VLE-MP (Respir- able fraction)	2 mg/m3	PT OEL (2014-11-14)
Fatty acids, C16- 18 (even num- bered), aluminium salts	Not As- signed	VLE-MP	10 mg/m3	PT OEL (2007-03-26)
	Further information: Substances that are not classified as carcinogenic for humans.			
		VLE-MP (Respir- able fraction)	1 mg/m3 (Aluminium)	PT OEL (2014-11-14)
	Further inform humans.	nation: Substances th	nat are not classified as car	cinogenic for

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
residual oils (petrole- um), solvent-dewaxed	Workers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Workers	Inhalation	Long-term local ef- fects	5,6 mg/m3
	Workers	Dermal	Long-term systemic effects	1 mg/kg bw/day
Reaction mass of p-t- butylphenyldiphenyl phosphate and bis(p- t-butylphenyl) phenyl phosphate	Workers	Inhalation	Long-term systemic effects	2,03 mg/m3
· ·	Workers	Inhalation	Long-term local ef- fects	0,2 mg/m3
	Workers	Dermal	Long-term systemic effects	0,056 mg/kg bw/day
	Workers	Dermal	Long-term local ef-	0,001 mg/cm2



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

fects

Substance name	Environmental Compartment	Value
residual oils (petroleum), solvent-	Oral	9,33 mg/kg
dewaxed		
Reaction mass of p-t-	Fresh water	0,000116 mg/l
butylphenyldiphenyl phosphate		
and bis(p-t-butylphenyl) phenyl		
phosphate		
	Marine water	0,000012 mg/l
	Microbiological Activity in Sewage Treat-	1 mg/l
	ment Systems	
	Fresh water sediment	0,51 mg/kg
	Marine sediment	0,051 mg/kg
	Soil	0,118 mg/kg

#### 8.2 Exposure controls

Engineering measures none		
Personal protective equipme	ent	
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 derived from it.
Skin and body protection	:	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.
Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type 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.



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

## 9.1 Information on basic physical and chemical properties

Physical state	:	paste
Colour	:	black
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	> 300 °C
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	Not applicable
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	< 0,001 hPa (20 °C)
Relative density	:	0,98 (20 °C) Reference substance: Water



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		The value is calculated	
Dens	sity	: 0,98 g/cm3 (20 °C)	
Bulk	density	: No data available	
Relat	tive vapour density	: No data available	
9.2 Other	information		
Explo	osives	: Not explosive	
Oxid	izing properties	: No data available	
Self-	ignition	: No data available	
Evap	oration rate	: No data available	
Subli	mation point	: No data available	

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

<b>10.1 Reactivity</b> No hazards to be specially men	tioned.		
10.2 Chemical stability			
Stable under normal conditions.			
10.3 Possibility of hazardous reac	tions		
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.



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## **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: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Symptoms: Redness, Local irritation
Components:		
dibutyl [[bis[(2-ethylhexyl)	oxy]	phosphinothioyl]thio]succinate:
Acute oral toxicity	:	LD50 (Rat): 11.300 mg/kg Method: OECD Test Guideline 401
residual oils (petroleum), s	olve	nt-dewaxed:
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 GLP: yes
Acute dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402 GLP: yes
Asphalt:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Graphite:		
Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	LC50 (Rat): > 2.000 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity



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Acute oral toxicity	<ul> <li>LD50 (Rat): &gt; 2.000 mg/kg Assessment: The substance or mixture has no acute oral tox icity</li> </ul>
Skin corrosion/irritatior	1
Product:	
Remarks	: This information is not available.
Components:	
dibutyl [[bis[(2-ethylhe>	xyl)oxy]phosphinothioyl]thio]succinate:
Species	: Rabbit
Assessment	: No skin irritation
Result	: No skin irritation
residual oils (petroleum	n), solvent-dewaxed:
Species	: Rabbit
Assessment	: No skin irritation
Method	: OECD Test Guideline 404
Result	: No skin irritation
GLP	: yes
Asphalt:	
Species	: Rabbit
Assessment	: No skin irritation
Method	: OECD Test Guideline 404
Result	: No skin irritation
Graphite:	
Species	: Rabbit
Assessment	: No skin irritation
Method	: OECD Test Guideline 404
Result	: No skin irritation
Fatty acids, C16-18 (eve	en numbered), aluminium salts:
Species	: Human
Assessment	: No skin irritation
Result	: No skin irritation
Serious eye damage/ey	e irritation
Product:	



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Components:		
dibutyl [[bis[(2-ethylhexyl)	)oxy]p	phosphinothioyl]thio]succinate:
Species	:	Rabbit
Assessment	:	No eye irritation
Result	:	No eye irritation
residual oils (petroleum),	solve	nt-dewaxed:
Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
GLP	:	yes
Asphalt:		
Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
Graphite:		
Species	:	Rabbit
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 405
Result	:	No eye irritation
Fatty acids, C16-18 (even	numb	ered), aluminium salts:
Assessment	:	No eye irritation
Result	:	No eye irritation

#### Respiratory or skin sensitisation

: This information is not available. Remarks

#### Components:

## dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate:

Assessment	:	The product is a skin sensitiser, sub-category 1B.
Result	:	The product is a skin sensitiser, sub-category 1B.

#### residual oils (petroleum), solvent-dewaxed:

Species :	Guinea pig
Assessment :	Did not cause sensitisation on laboratory animals.
Method :	OECD Test Guideline 406
Result :	Did not cause sensitisation on laboratory animals.
GLP :	yes



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Aspha	alt:			
Specie		:	Guinea pig	
Asses Metho	sment d	:	Does not cause skin sensitisation. OECD Test Guideline 406	
Result		:	Does not cause skin sensitisation.	
Graph	nite:			
Specie		:	Mouse	
Metho Result		:	OECD Test Guideline 429	
Result	L	•	negative	
-	•	numb	ered), aluminium salts:	
Asses Result	sment	:	Did not cause sensitisation on labo Did not cause sensitisation on labo	
Result	·	•		fratory animals.
Germ	cell mutagenicity			
<u>Produ</u>			Develop No. 144 and 2011	
Genot	oxicity in vitro	:	Remarks: No data available	
Genot	oxicity in vivo	:	Remarks: No data available	
<u>Comp</u>	onents:			
residu	ual oils (petroleum), s	olve	nt-dewaxed:	
Germ sessm	general g	:	Tests on bacterial or mammalian c mutagenic effects.	ell cultures did not show
Graph	nite:			
Genot	oxicity in vitro	:	Test Type: Microbial mutagenesis Method: OECD Test Guideline 471 Result: negative	
			Test Type: gene mutation test	、
			Method: OECD Test Guideline 476 Result: negative	)
			Test Type: Chromosome aberratio Method: OECD Test Guideline 473	
			Result: negative	,

## Carcinogenicity

#### Product:

Remarks

: No data available



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Com	oonents:			
resid	ual oils (petroleum),	solve	nt-dewaxed:	
Carcii ment	nogenicity - Assess-	:	No evidence of carcinogenicity in a	nimal studies.
Repro	oductive toxicity			
Prod	uct:			
Effect	ts on fertility	:	Remarks: No data available	
Effect ment	s on foetal develop-	:	Remarks: No data available	
Com	oonents:			
resid	ual oils (petroleum),	solve	nt-dewaxed:	
•	oductive toxicity - As-	:	- Fertility -	
sessn	sessment		No toxicity to reproduction - Teratogenicity -	
			No effects on or via lactation	
Grap	hite:			
Effect	s on fertility	:	Species: Rat Application Route: Oral General Toxicity F1: NOAEL: 813 r Method: OECD Test Guideline 422	
STOT	- single exposure			
<u>Com</u>	oonents:			
Asph	alt:			
Asses	ssment	:	The substance or mixture is not cla organ toxicant, single exposure.	ssified as specific targ
стот	- repeated exposure	•		

#### Components:

#### Asphalt:

Assessment

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### Repeated dose toxicity

## Product:

Remarks	:	This information is not available.
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#### **Components:**

## Graphite:

Species NOAEL Application Route Method	:	Rat 813 mg/kg Oral OECD Test Guideline 422
Species NOAEL Application Route Method	-	Rat > 2 mg/l inhalation (dust/mist/fume) OECD Test Guideline 412

#### Aspiration toxicity

#### Product:

This information is not available.

#### **Components:**

## residual oils (petroleum), solvent-dewaxed:

No aspiration toxicity classification

#### Asphalt:

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.



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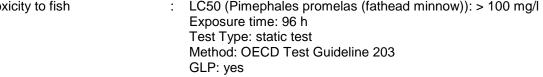
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## **SECTION 12: Ecological information**

#### 12.1 Toxicity

<u>Product:</u> Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
Fatty acids, C16-18 and C18	-un	satd., Me esters, sulfurized:
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 13 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): > 100 mg/l Exposure time: 72 h
dibutyl [[bis[(2-ethylhexyl)o	(y]	phosphinothioyl]thio]succinate:
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0,002 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
residual oils (petroleum), so	lve	nt-dewaxed:
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l





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			NOEC (Pimephales promelas (fathead m Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes	ninnow)): >= 100 mg/l
	exicity to daphnia and other luatic invertebrates	:	LC50 : > 10.000 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 202	
			NOEC : >= 10.000 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 202	
	exicity to algae/aquatic	:	NOEC (Pseudokirchneriella subcapitata 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201	(green algae)): >=
Gr	aphite:			
То	pxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg Exposure time: 96 h Method: OECD Test Guideline 203	g/l
	exicity to daphnia and other uatic invertebrates		(Daphnia magna (Water flea)): > 100 mg Exposure time: 48 h Method: OECD Test Guideline 202	g/I
	exicity to algae/aquatic ants	:	EC50 (Pseudokirchneriella subcapitata ( mg/l Exposure time: 72 h Method: OECD Test Guideline 201	green algae)): > 100

## 12.2 Persistence and degradability

#### Product:

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

#### **Components:**

## Fatty acids, C16-18 and C18-unsatd., Me esters, sulfurized:

Biodegradability	: Result: Not readily biodegradable.
	Biodegradation: 35 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301B



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dib	utyl [[bis[(2-ethylhexyl)	oxy]	phosphinothioyl]thio]succinate:	
Bio	degradability	:	Test Type: aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 12,1 % Exposure time: 28 d Method: OECD Test Guideline 301E	3
res	idual oils (petroleum), s	solve	nt-dewaxed:	
Bio	degradability	:	Test Type: aerobic Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 3 % Exposure time: 28 d Method: OECD Test Guideline 301E GLP: yes	3
Gra	phite:			
Bio	degradability	:	Remarks: The methods for determin not applicable to inorganic substanc	
12.3 Bio	accumulative potential			
Pro	duct:			
Bioa	accumulation	:	Remarks: This mixture contains no s be persistent, bioaccumulating and t This mixture contains no substance persistent and very bioaccumulating	oxic (PBT). considered to be very
<u>Cor</u>	nponents:			
dib	utyl [[bis[(2-ethylhexyl)	oxy]	phosphinothioyl]thio]succinate:	
	tition coefficient: n- anol/water	:	log Pow: > 6,5 Method: OECD Test Guideline 117 GLP: yes	
res	idual oils (petroleum), s	solve	nt-dewaxed:	
Bioa	accumulation	:	Remarks: No data available	
	tition coefficient: n- anol/water	:	Pow: > 3,5	
12.4 Mo	bility in soil			
Pro	duct:			
Mol	bility	:	Remarks: No data available	
	tribution among environ- ntal compartments	:	Remarks: No data available	
				a brand of



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#### 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:	
	residual oils (petroleum), solve	ent-dewaxed:
	Assessment :	This substance is not considered to be very persistent and very bioaccumulating (vPvB) This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
	Asphalt:	
	Assessment	Non-classified vPvB substance. Non-classified PBT substance
12.6	Endocrine disrupting propertie	?S
	Product:	
	Assessment :	The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7	Other adverse effects	
	Product: Additional ecological infor- : mation	No information on ecology is available.

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods		
Product	:	The product should not be allowed to enter drains, water courses or the soil. 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	:	Packaging that is not properly emptied must be disposed of as



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		the unused product. Dispose of waste product or used local regulations.	d containers according to
		The following Waste Codes are c	only suggestions:
Wast	e Code	: used product, unused product 12 01 12*, spent waxes and fats	
		uncleaned packagings 15 01 10*, packaging containing by hazardous substances	residues of or contaminated

# **SECTION 14: Transport information**

14.1 UN number or ID number				
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.2 UN proper shipping r	name			
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.3 Transport hazard clas	ss(es)			
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
ΙΑΤΑ	:	Not regulated as a dangerous good		
14.4 Packing group				
ADR	:	Not regulated as a dangerous good		
RID	:	Not regulated as a dangerous good		
IMDG	:	Not regulated as a dangerous good		
IATA (Cargo)	:	Not regulated as a dangerous good		
IATA (Passenger)	:	Not regulated as a dangerous good		
14.5 Environmental hazards				
ADR	:	Not regulated as a dangerous good		



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RID		: Not regulated as a dangerous good				
IMDG		: Not regulated as a dangerous goo	: Not regulated as a dangerous good			
<b>14.6 Special precautions for user</b> Not applicable						
14.7 Maritime transport in bulk according to IMO instruments						
Remarks :		: Not applicable for product as supp	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 de- plete 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
Seveso III: Directive 2012/18/EU of the European : Parliament and of the Council on the control of major-accident hazards involving dangerous sub- stances.	Not applicable
emissions (integrated	of 24 November 2010 on industrial pollution prevention and control) ounds (VOC) content: 3,93 %

# 15.2 Chemical safety assessment

This information is not available.



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## **SECTION 16: Other information**

Full text of H-Statements			
H317 :	May cause an allergic skin reaction.		
H412 :	Harmful to aquatic life with long lasting effects.		
H413 :	May cause long lasting harmful effects to aquatic life.		

#### Full text of other abbreviations

Note L	: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determi- nation of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method"Institute of Petroleum, Lon- don), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.
PT OEL	: Portugal. Security and Health at the Workplace - Occupational exposure limits of chemical agents
PT OEL / VLE-MP	: Time Weighted Average

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 - Emergencv 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 - Interna-tional 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

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