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

1.1 Product identifier Product name	:	OKS 428
1.2 Relevant identified	uses of the s	ubstance or mixture and uses advised against
Use of the Substance/Mixture	:	Grease
Recommended rest on use	rictions :	Restricted to professional users.
1.3 Details of the suppl	lier 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 p responsible for the S		mcm@oks-germany.com

1.4 Emergency telephone number

National contact

Emergency telephone	: +34 91 562 04 20
number	

:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)				
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.			

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



01/0 400

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



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Н	azard pictograms	:	(!)		
S	gnal word	:	Warning		
н	azard statements	:	H317	May cause an allergic	c skin reaction.
Р	recautionary statements	:	Prevention:		
			P272	Contaminated work c allowed out of the wo	
			P280	Wear protective glove	es.
			Response:		
			P302 + P352	IF ON SKIN: Wash w	ith plenty of water.
			P333 + P313	If skin irritation or rasl advice/ attention.	h occurs: Get medical
			P362 + P364	Take off contaminated before reuse.	d clothing and wash it

Hazardous components which must be listed on the label:

Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol

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

: polyalkylene glycol oil lithium soap



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Components

Components				
Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert-dodecanethiol	939-692-2 01-2119983498-16- XXXX	Aquatic Chronic3; H412		>= 2,5 - < 10
Molybdenum trioxide, reaction products with bis[O,O-bis(2- ethylhexyl)] hydrogen dithiophosphate	947-946-9 01-2120772600-59- XXXX	Skin Irrit.2; H315 Skin Sens.1B; H317 Aquatic Chronic4; H413		>= 1 - < 2,5
Condensation products of fatty acids, tall oil with 2-amino-2- ethylpropanediol	946-010-7 01-2120770934-44- XXXX	Skin Sens.1; H317		>= 1 - < 10
Substances with a work	place exposure limit .			
lithium 12- hydroxystearate	7620-77-1 231-536-5 01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX 01-2119970893-23- XXXX	Not classified		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures



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Symptoms: No symptoms known or expected.Risks: May cause an allergic skin reaction.	ersion .3	Revision Date: 02.04.2024		of last issue: 25.04.2022 of first issue: 09.06.2016	Print Date: 02.04.2024
Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. In case of eye contact : Rinse immediately with plenty of water, also under the 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 m advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious pers 2 Most important symptoms and effects, both acute and delayed Symptoms : No symptoms known or expected.	lf inhale	ed	rr K If a K If	nedical attention. eep patient warm and at rest. unconscious, place in recovery dvice. eep respiratory tract clear. breathing is irregular or stopped	position and seek medical
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 m advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious pers 2 Most important symptoms and effects, both acute and delayed Symptoms : No symptoms known or expected. Risks : May cause an allergic skin reaction.	In case	of skin contact	M G P M	Vash off immediately with soap a let medical attention immediately ersists. Vash clothing before reuse.	and plenty of water. y if irritation develops and
If unconscious, place in recovery position and seek m advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious pers 2 Most important symptoms and effects, both acute and delayed Symptoms : No symptoms known or expected. Risks : May cause an allergic skin reaction.	In case	of eye contact	fc	or at least 10 minutes.	
Symptoms: No symptoms known or expected.Risks: May cause an allergic skin reaction.	If swall	owed	lf a K D	unconscious, place in recovery dvice. eep respiratory tract clear. o not induce vomiting without m	edical advice.
Risks : May cause an allergic skin reaction.	.2 Most im	portant symptom	s and effe	ects, both acute and delayed	
	Sympto	oms	: N	lo symptoms known or expected	l.
3 Indication of any immediate medical attention and special treatment needed	Risks		: N	lay cause an allergic skin reaction	on.
	.3 Indicati	on of any immedi	ate medic	al attention and special treatn	nent needed
Treatment : Treat symptomatically.		•		•	

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

5.2 Special hazards arising from the substance or mixture

Hazardous combustion : Carbon oxides



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



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pro	oducts		Nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus Metal oxides			
5.3 Advice for firefighters						
Special protective equipment for firefighters		t :	In the event of fire, wear self- Use personal protective equip decomposition products may l	ment. Expos	sure to	
Fu	rther information	:	Standard procedure for chemi	ical fires.		

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not breathe vapours, aerosols.	Personal precautions	
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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 : Pick up and transfer to properly labelled containers.

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.
_	For personal protection see section 8.
	Smoking, eating and drinking should be prohibited in the
	application 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.



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		may still contain product Keep container closed w	hen not in use.
Hygie	ne measures	Wash face, hands and a handling.	ny exposed skin thoroughly after
7.2 Condit	tions for safe storage	cluding any incompatibili	ties
	rements for storage and containers	use. Keep in a dry, cool which are opened must to prevent leakage. Store	er. Keep container closed when not in and well-ventilated place. Containers be carefully resealed and kept upright e in accordance with the particular ep in properly labelled containers.
-	ic end use(s) fic use(s)	Spacific instructions for l	appdling not required
Speci	10 030(3)	Specific instructions for I	anunny, 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
lithium 12- hydroxystearate	7620-77-1	VLA- EDEnvironmental Daily Limit Value	10 mg/m3	ES VLA (2012-01-01)

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

Substance name	End Use	Exposure routes	Potential health effects	Value
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert- dodecanethiol	Workers	Inhalation		4,408 mg/m3
	Workers	Dermal		6,25 mg/kg bw/day
bis(4-(1,1,3,3- tetramethylbutyl)phen yl)amine	Workers	Inhalation	Long-term systemic effects	49,3 mg/m3
	Workers	Dermal	Long-term systemic effects	14 mg/kg bw/day



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react bis[C ethyl	bdenum trioxide, tion products with),O-bis(2- hexyl)] hydrogen ophosphate	Workers	Inhalation	Long-term systemic effects	4,93 mg/m3	
		Workers	Dermal	Long-term systemic effects	1,4 mg/kg bw/day	
prod acids amin	densation ucts of fatty s, tall oil with 2- 10-2- propanediol	Workers	Dermal	Long-term systemic effects	8,33 mg/kg bw/day	

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

Substance name	Environmental Compartment Value	
1,3,4-Thiadiazolidine-2,5-	Fresh water	0,041 mg/l
dithione, reaction products with		
hydrogen peroxide and tert-		
dodecanethiol		
	Marine water	0,0041 mg/l
	Fresh water sediment	380,62 mg/kg
	Marine sediment	38,06 mg/kg
	Sewage treatment plant	8000 mg/l
	Soil	308,98 mg/kg

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

Eye/face protection	:	Safety glasses
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 specifications 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 concentration and amount of dangerous substances, and to the specific work-place.





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Resp	iratory protection	: Not required; except in case of aerosol formation.	
Fi	lter type	: Filter type P	
Prote	ective measures	: The type of protective equipment must be selected a to the concentration and amount of the dangerous su at the specific workplace.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	paste
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
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 substance/mixture is non-soluble (in water)
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable



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	bility(ies) √ater solubility	:	insoluble	
S	olubility in other solvents	3 :	No data available	
	tion coefficient: n- nol/water	:	No data available	
Vapo	our pressure	:	< 0,001 hPa (20 °C)	
Rela	tive density	:	0,99 (20 °C) Reference substance: Water The value is calculated	
Den	sity	:	0,99 g/cm3 (20 °C)	
Bulk	density	:	No data available	
Rela	tive vapour density	:	No data available	
	cle characteristics article size	:	Not applicable	
P	article Size Distribution	:	Not applicable	
9.2 Other	r information			
Expl	osives	:	Not explosive	
Oxid	izing properties	:	No data available	
Self-	ignition	:	No data available	
Evap	poration rate	:	No data available	
Subl	imation point	:	No data available	

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions



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Haza	rdous reactions	: No dangerous reaction known un	der conditions of normal use.
	ditions to avoid litions to avoid	: No conditions to be specially mer	ntioned.
	mpatible materials rials to avoid	: No materials to be especially me	ntioned.

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: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Symptoms: Redness, Local irritation
Components:		
1,3,4-Thiadiazolidine-2,5-di dodecanethiol:	thio	ne, reaction products with hydrogen peroxide and tert-
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Molybdenum trioxide, reac dithiophosphate:	tion	products with bis[O,O-bis(2-ethylhexyl)] hydrogen
Acute dermal toxicity	:	Symptoms: Redness, Local irritation
Condensation products of	fatty	v acids, tall oil with 2-amino-2-ethylpropanediol:
Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral toxicity



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Acute	e dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 40 Assessment: The substance or m toxicity	
lithiu	m 12-hydroxystear	ate:		
Acute	e oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 40)1
Acute	e dermal toxicity	:	LD50 (Rabbit): > 3.000 mg/kg Assessment: The substance or m toxicity	ixture has no acute derma
Skin	corrosion/irritation			
Prod	uct:			
Rema	arks	:	This information is not available.	
	ponents:			
1,3,4 - dode Speci	-Thiadiazolidine-2,5 canethiol: ies		ne, reaction products with hydro	gen peroxide and tert-
1,3,4 - dode Speci	-Thiadiazolidine-2,5 canethiol: ies ssment			gen peroxide and tert-
1,3,4- dode Speci Asses Resu Molyl dithic	Thiadiazolidine-2,5 canethiol: ies ssment lt bdenum trioxide, re ophosphate: ssment	:	Rabbit No skin irritation	
1,3,4- dode Speci Asses Resu Molyl dithic Asses	-Thiadiazolidine-2,5 canethiol: ies ssment It bdenum trioxide, re ophosphate: ssment It	:	Rabbit No skin irritation No skin irritation products with bis[O,O-bis(2-eth) Irritating to skin.	
1,3,4- dode Speci Asses Resu Molyl dithic Asses Resu Rema	•Thiadiazolidine-2,5 canethiol: ies ssment It bdenum trioxide, re ophosphate: ssment It arks	eaction	Rabbit No skin irritation No skin irritation products with bis[O,O-bis(2-eth) Irritating to skin. Irritating to skin. Irritating to skin.	ylhexyl)] hydrogen
1,3,4- dode Speci Asses Resu Molyl dithic Asses Resu Rema	Thiadiazolidine-2,5 canethiol: ies ssment lt bdenum trioxide, re ophosphate: ssment lt arks	eaction	Rabbit No skin irritation No skin irritation products with bis[O,O-bis(2-ethy Irritating to skin. Irritating to skin. Irritating to skin. / acids, tall oil with 2-amino-2-eth reconstructed human epidermis (ylhexyl)] hydrogen nylpropanediol:
1,3,4- dode Speci Asses Resu Molyl dithic Asses Resu Rema Speci Asses	•Thiadiazolidine-2,5 canethiol: ies ssment lt bdenum trioxide, re ophosphate: ssment lt arks lensation products ies ssment	eaction	Rabbit No skin irritation No skin irritation products with bis[O,O-bis(2-eth) Irritating to skin. Irritating to skin. Irritating to skin. / acids, tall oil with 2-amino-2-eth reconstructed human epidermis (No skin irritation	ylhexyl)] hydrogen nylpropanediol:
1,3,4- dode Speci Asses Resu Molyl dithic Asses Resu Rema Speci	•Thiadiazolidine-2,5 canethiol: ies ssment lt bdenum trioxide, re ophosphate: ssment lt arks lensation products ies ssment	eaction	Rabbit No skin irritation No skin irritation products with bis[O,O-bis(2-ethy Irritating to skin. Irritating to skin. Irritating to skin. / acids, tall oil with 2-amino-2-eth reconstructed human epidermis (ylhexyl)] hydrogen nylpropanediol:
1,3,4- dode Speci Asses Resu Molyl dithic Asses Resu Rema Speci Asses Resu	Thiadiazolidine-2,5 canethiol: ies ssment it bdenum trioxide, re ophosphate: ssment it arks lensation products ies ssment it m 12-hydroxystear	eaction	Rabbit No skin irritation No skin irritation products with bis[O,O-bis(2-eth) Irritating to skin. Irritating to skin. Irritating to skin. / acids, tall oil with 2-amino-2-eth reconstructed human epidermis (No skin irritation	ylhexyl)] hydrogen nylpropanediol:
1,3,4- dode Speci Asses Resu Molyl dithic Asses Resu Rema Speci Asses Resu	Thiadiazolidine-2,5 canethiol: ies ssment lt bdenum trioxide, re ophosphate: ssment lt arks lensation products ies ssment lt m 12-hydroxystear ssment	eaction	Rabbit No skin irritation No skin irritation products with bis[O,O-bis(2-eth) Irritating to skin. Irritating to skin. Irritating to skin. / acids, tall oil with 2-amino-2-eth reconstructed human epidermis (No skin irritation	ylhexyl)] hydrogen nylpropanediol:



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Serious eye damage/eye irritation

Product:

Remarks

: This information is not available.

Components:

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

Species	:	Rabbit
Assessment	:	No eye irritation
Result	:	No eye irritation

Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate:

Assessment	:	No eye irritation
Result	:	No eye irritation

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Species	:	Rabbit
Assessment	:	No eye irritation
Result	:	No eye irritation

lithium 12-hydroxystearate:

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

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

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

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Result	:	Does not cause skin sensitisation.

Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate:

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





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Cond	lensation products	of fatty acids, tall oil with 2	2-amino-2-ethylpropanediol:	
Asses	ssment		ation by skin contact.	
Resu	lt	: May cause sensitis	ation by skin contact.	
lithiu	m 12-hydroxystear	ite:		
	sure routes	: Dermal		
Speci Metho		: Mouse : OECD Test Guideli	ing 420	
Resu		: negative	ne 429	
Germ	n cell mutagenicity			
Prod	uct:			
Geno	toxicity in vitro	: Remarks: No data a	available	
Geno	toxicity in vivo	: Remarks: No data a	available	
<u>Com</u>	ponents:			
Cond	lensation products	of fatty acids, tall oil with 2	2-amino-2-ethylpropanediol:	
Geno	toxicity in vitro	: Remarks: In vitro te	ests did not show mutagenic effec	ts
Carci	inogenicity			
Prod	uct:			
Rema		: No data available		
Repr	oductive toxicity			
Prod	uct:			
Effect	ts on fertility	: Remarks: No data a	available	
	ts on foetal opment	: Remarks: No data a	available	
<u>Com</u>	ponents:			
Cond	lensation products	of fatty acids, tall oil with 2	2-amino-2-ethylpropanediol:	
	oductive toxicity -	: - Fertility -		
	ssment	-	not show any effects on fertility.	
etor				
3101	Γ - single exposure			
D				

Product:



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Remarks : No data available	
STOT - repeated exposure	
Product: Remarks : No data available	
Repeated dose toxicity	
Product:	
Remarks : This information is not available.	
Aspiration toxicity	
Product:	
This information is not available.	
11.2 Information on other hazards	
Endocrine disrupting properties	
Product:	
Assessment : The substance/mixture does not contain compon considered to have endocrine disrupting propertie to REACH Article 57(f) or Commission Delegated (EU) 2017/2100 or Commission Regulation (EU) levels of 0.1% or higher.	es according d regulation
Further information	
Product:	
Remarks : Information given is based on data on the compo the toxicology of similar products.	onents and
Components:	
Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydro dithiophosphate:	gen
Remarks : Ingestion causes irritation of upper respiratory sy gastrointestinal disturbance.	stem and





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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available
Components:		
1,3,4-Thiadiazolidine-2,5-dith dodecanethiol:	nio	ne, reaction products with hydrogen peroxide and tert-
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1.000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 41 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Pseudomonas putida): > 8.000 mg/l Exposure time: 16 h
Molybdenum trioxide, reaction dithiophosphate:	on	products with bis[O,O-bis(2-ethylhexyl)] hydrogen
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
		Remarks: May cause long-term adverse effects in the aquatic environment.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test



GLP: yes

Method: OECD Test Guideline 202



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Toxicity to algae/aquatic : plants		EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes		
lithium 12-hydroxystearate: Toxicity to fish :		LC50 (Oncorhynchus mykiss (ra Exposure time: 96 h	ainbow trout)): > 100 mg/l	
			Test Type: semi-static test Method: OECD Test Guideline 2 GLP: yes	203
	city to daphnia and other atic invertebrates	• :	EC50 (Daphnia magna (Water fl Exposure time: 48 h	lea)): > 100 mg/l
Toxicity to algae/aquatic : plants		EC50 (Pseudokirchneriella subcapitata (green algae)): > 160 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
			NOEC (Pseudokirchneriella sub mg/l Exposure time: 72 h Method: OECD Test Guideline 2	
12 2 Per	sistence and degradabi	ilitv		

12.2 Persistence and degradability

Product:		
Biodegradability	:	Remarks: No data available
Physico-chemical removability	:	Remarks: No data available

Components:

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

Biodegradability	:	Result: Not rapidly biodegradable
		Biodegradation: 0 %
		Exposure time: 28 d

Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate:

Biodegradability	:	Result: Not rapidly biodegradable
		Biodegradation: 11 %



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



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			Exposure time: 28 d Method: OECD Test Guideline 301	В
	-	of fatty	acids, tall oil with 2-amino-2-ethy	/lpropanediol:
Biode	egradability	:	Result: Not rapidly biodegradable	
lithiu	m 12-hydroxysteara	ate:		
Biode	egradability	:	Test Type: Primary biodegradation Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 74,7 % Exposure time: 28 d Method: OECD Test Guideline 301	
2.3 Bioa	ccumulative potent	ial		
<u>Prod</u>	uct:			
Bioac	ccumulation	:	Remarks: Product does not contain persistent, bioaccumulative, and to or higher. Product does not contain substanc persistent and very bioaccumulative or higher.	xic (PBT) at levels of 0.19 es which are very
Com	ponents:			
	-Thiadiazolidine-2,5 canethiol:	-dithio	ne, reaction products with hydrog	en peroxide and tert-
	cumulation	:	Bioconcentration factor (BCF): 3,16	6
	ion coefficient: n- ol/water	:	log Pow: 8	
	bdenum trioxide, re ophosphate:	action	products with bis[O,O-bis(2-ethyl	hexyl)] hydrogen
	ion coefficient: n- ol/water	:	log Pow: > 4	
Conc	lensation products	of fatty	acids, tall oil with 2-amino-2-ethy	/lpropanediol:
Bioad	ccumulation	:	Bioconcentration factor (BCF): < 10	00
	ion coefficient: n- ol/water	:	log Pow: 9,01	
lithiu	m 12-hydroxysteara	ate:		
Partit	ion coefficient: n-	:	log Pow: 2,6	
			17 / 23	a brand of





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octanol/water

12.4 Mobility in soil

Product:

Mobility	:	Remarks: No data available
Distribution among environmental compartments	:	Remarks: No data available

12.5 Results of PBT and vPvB assessment

Ρ	r	o	d		c	t٠	
		v	u	u	c	ι.	

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.
	5

12.6 Endocrine disrupting properties

|--|

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.
	levels of 0.1% or higher.

12.7 Other adverse effects

Product:		
Additional ecological information	:	No information on ecology is available.

Components:

Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate:				
Additional ecological	:	May cause long lasting harmful effects to aquatic life.		

information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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



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



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			Do not dispose of with domestic refu Dispose of as hazardous waste in c national regulations.	
			Waste codes should be assigned by application for which the product wa	
Contaminated packaging :		:	Packaging that is not properly empt the unused product. Dispose of waste product or used co local regulations.	
			The following Waste Codes are only	y suggestions:
Waste	e Code	:	used product, unused product 12 01 12**, spent waxes and fats	
			uncleaned packagings 15 01 10*, packaging containing res by hazardous substances	sidues 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	2 UN proper shipping 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	3 Transport hazard class(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



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ADR		: Not regulated as a c	angerous good	Ł
RID		: Not regulated as a c	angerous good	t
IMDO	3	: Not regulated as a c	angerous good	Ł
ΙΑΤΑ	(Cargo)	: Not regulated as a c	angerous good	Ł
ΙΑΤΑ	(Passenger)	: Not regulated as a c	angerous good	Ł
14.5 Envi	ronmental hazards			
ADR		: Not regulated as a c	angerous good	Ł
RID		: Not regulated as a c	angerous good	Ł
IMDO	6	: Not regulated as a c	angerous good	Ł
	cial precautions for unpplicable	lser		
	-	k according to IMO instru		
Rema	arks	: Not applicable for pr	oduct as suppl	ied.
the m		ne manufacture, placing on ain dangerous substances, ex XVII)	: Not app	blicable
Conc				
(20	CH - Candidate List o ern for Authorisation SVHC)	f Substances of Very High (Article 59).	substar (Regula	oduct does not contain aces of very high concern ation (EC) No 006 (REACH), Article 57).
Regu deple	ern for Authorisation SVHC)		substar (Regula	nces of very high concern ation (EC) No 006 (REACH), Article 57).
Regu deple (EC Regu pollut	ern for Authorisation SVHC) Ilation (EC) No 1005/2 ete the ozone layer 1005/2009)	(Article 59).	substar (Regula 1907/20	aces of very high concern ation (EC) No 006 (REACH), Article 57). blicable





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(Anne	REACH - List of substances subject to authorisation : Not applicable (Annex XIV) (EU. REACH-Annex XIV)				
•	ation (EU) 2019/1148 sives precursors	on the marketing and use of :	Not applicable		
Parlia major	so III: Directive 2012/1 ment and of the Coun -accident hazards invo ances.		Not applicable		
Volati	le organic compounds		4 November 2010 on industrial ution prevention and control) ds (VOC) content: 1 %		
Take	regulations: note of Directive 94/33 ations, where applicab	B/EC on the protection of young p le.	eople at work or stricter national		

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H315 :	Causes skin irritation.
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

ES VLA	:	Spain. Environmental Limits for exposure to Chemical agents
ES VLA / VLA-ED	:	 Table 1: Occupational Exposure Values Environmental Daily Limit Value



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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 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 mixture:

H317

Skin Sens. 1

Classification procedure:

Calculation method

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