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OKS 420

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

1.1 Product identifier Product name	:	OKS 420
1.2 Relevant identified uses of tl	he 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	er :	06 68593726 Roma - CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA 800183459 Foggia - Az. Osp. Univ. Foggia 081-5453333 Napoli - Az. Osp. "A. Cardarelli" 06-49978000 Roma - CAV Policlinico "Umberto I" 06-3054343 Roma - CAV Policlinico "A. Gemelli" 055-7947819 Firenze - Az. Osp. "Careggi" U.O. Tossicologia Medica 0382-24444 Pavia - CAV Centro Nazionale di Informazione Tossicologica 02-66101029 Milano - Osp. Niguarda Ca' Granda 800883300 Bergamo - Az. Osp. Papa Giovanni XXII 800011858 Verona - Az. Osp. Integrata Verona +49 8142 3051 517 (Service 24/7)



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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH210	Safety data sheet available on request.
EUH208	Contains Condensation products of fatty acids, tall oil with 2-amino-2- ethylpropanediol; Molybdenum trioxide, reaction products with bis[O,O-bis(2- ethylhexyl)] hydrogen dithiophosphate. May produce an allergic reaction.

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. polyurea

Components

Chemical name	CAS-No. EC-No.	Classification	specific concen- tration limit	Concentration (% w/w)
	Index-No. Registration number		M-Factor Notes Acute toxicity	
	Registration number		estimate	
reaction product of		Aquatic Chronic4;		>= 10 - < 20



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diphenylm thanediiso octylamine oleylamine ratio1:1.86	cyanate, e and e (molar	430-930-6 01-0000017717-62- 0001 01-0000017717-62- 0000 01-0000017717-62- 0002	H413		
Condensa ucts of fatt oil with 2-a ethylpropa	ty acids, tall amino-2-	946-010-7 01-2120770934-44- XXXX	Skin Sens.1; H317		>= 0,1 - < 1
reaction pr bis[O,O-bi)] hydrogen	947-946-9 01-2120772600-59- XXXX	Skin Irrit.2; H315 Skin Sens.1B; H317 Aquatic Chronic4; H413		>= 0,25 - < 1
	es with a work Is (petrole-	place exposure limit : 64742-57-0	Not classified		>= 70 - < 90
um), hydro		265-160-8 649-470-00-4 01-2119489287-22- XXXX		Note L	/ /0 - < 30

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 respiration. 	1-
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 	



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			ing before reuse. v clean shoes before re	use.
In ca	se of eye contact	for at least	ediately with plenty of v 10 minutes. ion persists, consult a	vater, also under the eyelids, specialist.
lf swa	allowed	lf unconscie advice. Keep respir Do not indu	ratory tract clear. uce vomiting without mo	position and seek medical edical advice. an unconscious person.
4.2 Most i	important symptom	and effects, both	acute and delayed	
Symp	otoms	: Allergic app	bearance	
Risks	3	: May cause	an allergic skin reactio	n.
4.3 Indica	tion of any immedia	e medical attentio	on and special treatm	ent needed
Treat	ment		d procedure should be ctor responsible for ind	established in consultation lustrial medicine.
SECTION	N 5: Firefighting m	asures		
5.1 Exting	guishing media			

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
Unsuitable extinguishing media	:	High volume water jet			
Special bazards arising from the substance or mixture					

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Oxides of phosphorus Metal oxides
		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.



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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. Refer to protective measures listed in sections 7 and 8.
ເງ	Environmental processions		

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	:	Avoid contact with skin and eyes. For personal protection see section 8. 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 ingest. Do not repack. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use.
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.



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7.2 Conditions for safe storage, 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)		
Specific use(s)	:	Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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), hydrotreated	Workers	Inhalation	Long-term systemic effects	2,7 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	5,6 mg/m3
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
Condensation prod- ucts of fatty acids, tall oil with 2-amino-2- ethylpropanediol	Workers	Dermal	Long-term systemic effects	8,33 mg/kg bw/day
Molybdenum trioxide, reaction products with bis[O,O-bis(2- ethylhexyl)] hydrogen dithiophosphate	Workers	Inhalation	Long-term systemic effects	4,93 mg/m3
<u> </u>	Workers	Dermal	Long-term systemic effects	1,4 mg/kg bw/day

8.2 Exposure controls

Eye protection

Engineering measures

none

Personal protective equipment

: Safety glasses with side-shields

Hand protection		
Material	:	Nitrile rubber
Break through time	:	> 10 min
Protective index	:	Class 1

Remarks

: Wear protective gloves. The break through time depends



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			amongst other things on the material, the type of glove and therefore has to be me case. The selected protective gloves have to sa tions of Regulation (EU) 2016/425 and the derived from it.	asured for each atisfy the specifica-
Skin	and body protection	:	Choose body protection in relation to its t tration and amount of dangerous substar cific work-place.	
Resp	piratory protection	:	Not required; except in case of aerosol for	ormation.
F	ilter type	:	Filter type P	
Prote	ective measures	:	The type of protective equipment must be to the concentration and amount of the d at the specific workplace.	-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	paste
Colour	:	beige
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



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	рН		:	Not applicable substance/mixture is non-soluble	e (in water)
	Viscos Vis	sity cosity, dynamic	:	No data available	
	Vis	cosity, kinematic	:	Not applicable	
		ility(ies) ater solubility	:	insoluble	
	So	lubility in other solvents	; ;	No data available	
		on coefficient: n- bl/water	:	No data available	
	Vapoι	ur pressure	:	< 0,001 hPa (20 °C)	
	Relati	ve density	:	0,900 (20 °C) Reference substance: Water The value is calculated	
	Densi	ty	:	0,90 g/cm3 (20 °C)	
	Bulk d	lensity	:	No data available	
	Relati	ve vapour density	:	No data available	
9.2	Other i	information			
	Explo	sives	:	Not explosive	
	Oxidiz	ing properties	:	No data available	
	Self-ig	Inition	:	No data available	
	Evapo	pration rate	:	No data available	
	Sublin	nation 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.



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10.3 Possibility of hazardous reactions Hazardous reactions : No dangerous reaction known under conditions of normal use.						
	ditions to avoid	. No dangerous reaction known				
	litions to avoid	: No conditions to be specially r	nentioned.			
	mpatible materials rials to avoid	: No materials to be especially r	mentioned.			
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 inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Symptoms: Redness, Local irritation
Components:		
reaction product of diphenylr tio1:1.86:0.14):	me	ethanediisocyanate, octylamine and oleylamine (molar ra-
Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: Directive 67/548/EEC, Annex V, B.1. GLP: yes
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 GLP: yes
Condensation products of fat	tty	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 tox- icity
Acute dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity



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	odenum trioxide, re ohate:	action products with bis[O,O-bis(2-ethylh	exyl)] hydrogen dithio
Acute	dermal toxicity	: Symptoms: Redness, Local irritation	I
residu	ual oils (petroleum)	, hydrotreated:	
Acute	oral toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401	
Acute	dermal toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402	
Skin o	corrosion/irritation		
<u>Produ</u>	<u>ict:</u>		
Rema	rks	: This information is not available.	
<u>Comp</u>	oonents:		
	on product of diph .86:0.14):	enylmethanediisocyanate, octylamine and	d oleylamine (molar ra
Speci		: Rabbit	
	sment	: No skin irritation	
Metho		: OECD Test Guideline 404	
Resul	l	: No skin irritation : yes	
GLP			
	ensation products	of fatty acids, tall oil with 2-amino-2-ethyl	propanediol:
	-		
Cond Specie	-	of fatty acids, tall oil with 2-amino-2-ethyl : reconstructed human epidermis (Rh : No skin irritation	
Cond Specie	es sment	: reconstructed human epidermis (Rh	
Cond Specie Asses Resul	es sment t odenum trioxide, re	reconstructed human epidermis (RhNo skin irritation	E)
Cond Specie Asses Result Molyt phos	es ssment t odenum trioxide, re ohate:	 reconstructed human epidermis (Rh No skin irritation No skin irritation 	E)
Cond Specie Asses Result Molyt phos	es ssment t odenum trioxide, re ohate: ssment	 reconstructed human epidermis (Rh No skin irritation No skin irritation 	E)
Cond Specie Asses Resul Molyk phosy Asses	es ssment t odenum trioxide, re ohate: ssment t	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh : Irritating to skin.	E)
Cond Specie Asses Resul Molyt phos Resul Rema	es ssment t odenum trioxide, re ohate: ssment t	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh Irritating to skin. Irritating to skin. Irritating to skin. 	E)
Cond Specie Asses Resul Molyt phos Resul Rema	es ssment t odenum trioxide, re ohate: ssment t rks ual oils (petroleum)	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh Irritating to skin. Irritating to skin. Irritating to skin. 	E)
Cond Specie Asses Resul Molyt phos Asses Resul Rema Specie Asses	es ssment t odenum trioxide, re ohate: ssment t rks ual oils (petroleum) es ssment	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh Irritating to skin. 	E)
Cond Specie Asses Resul Molyt phos Asses Resul Rema Specie Asses Metho	es ssment t odenum trioxide, re ohate: ssment t rks ual oils (petroleum) es ssment od	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh action products with bis[O,O-bis(2-ethylh Irritating to skin. Irritating to skin. Irritating to skin. hydrotreated: Rabbit No skin irritation OECD Test Guideline 404 	E)
Cond Specie Asses Resul Molyt phos Asses Resul Rema Specie Asses	es ssment t odenum trioxide, re ohate: ssment t rks ual oils (petroleum) es ssment od	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh Irritating to skin. 	E)
Cond Specie Asses Resul Molyt phos Asses Resul Rema Specie Asses Metho Resul	es ssment t odenum trioxide, re ohate: ssment t rks ual oils (petroleum) es ssment od	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh action products with bis[O,O-bis(2-ethylh Irritating to skin. No skin irritation OECD Test Guideline 404 No skin irritation 	E)
Cond Specie Asses Resul Molyt phos Asses Resul Rema Specie Asses Metho Resul	es ssment t odenum trioxide, re ohate: ssment t rks ual oils (petroleum) es ssment od t us eye damage/eye	 reconstructed human epidermis (Rh No skin irritation No skin irritation action products with bis[O,O-bis(2-ethylh action products with bis[O,O-bis(2-ethylh Irritating to skin. No skin irritation OECD Test Guideline 404 No skin irritation 	E)



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Components:

reaction product of diphenylmethanediisocyanate, octylamine and oleylamine (molar ratio1:1.86:0.14):

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

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

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

residual oils (petroleum), hydrotreated:

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:

reaction product of diphenylmethanediisocyanate, octylamine and oleylamine (molar ratio1:1.86:0.14):

Test Type	:	Maximisation Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

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

Assessment	:	May cause sensitisation by skin contact.
Result	:	May cause sensitisation by skin contact.



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	bdenum trioxide, rea phate:	action	products with bis[O,O-bis(2-ethy	hexyl)] hydrogen dithio-
-	ssment	:	The product is a skin sensitiser, so The product is a skin sensitiser, so	
resid	ual oils (petroleum),	, hydro	otreated:	
Spec Asse	ies ssment	:	Guinea pig Does not cause skin sensitisation.	
Meth	od	:	OECD Test Guideline 406	
Resu	lt	:	Does not cause skin sensitisation.	
Asse: Resu	ssment It	:	Does not cause respiratory sensiti Does not cause respiratory sensiti	
Germ	n cell mutagenicity			
Prod	uct:			
	otoxicity in vitro	:	Remarks: No data available	
Geno	otoxicity in vivo	:	Remarks: No data available	
	ponents:			
	lon product of dipne 1.86:0.14):	enyime	ethanediisocyanate, octylamine a	nd oleylamine (molar ra-
Geno	toxicity in vitro	:	Test Type: Chromosome aberration Result: negative	on test in vitro
Conc	lensation products o	of fatty	acids, tall oil with 2-amino-2-eth	ylpropanediol:
Geno	toxicity in vitro	:	Remarks: In vitro tests did not sho	w mutagenic effects
Carci	inogenicity			
Prod	<u>uct:</u>			
Rema	arks	:	No data available	
Com	ponents:			
resid	ual oils (petroleum),	, hydro	otreated:	
Carci ment	nogenicity - Assess-	:	Not classifiable as a human carcir	iogen.
Repr	oductive toxicity			
Prod	uct:			
Effec	ts on fertility	:	Remarks: No data available	
Effec	ts on foetal develop-	:	Remarks: No data available	



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ment

Components:

Condensation products of	fatty acids, tall oil with 2-amino-2-ethylpropanediol:
	: - Fertility -
sessment	Animal testing did not show any effects on fertility.

Repeated dose toxicity

Product:

Remarks

: This information is not available.

Aspiration toxicity

Product:

This information is not available.

Components:

residual oils (petroleum), hydrotreated: 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:

Molybdenum trioxide, reacti phosphate:	on products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithio-
Remarks	 Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.



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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:

reaction product of diphenyl	me	ethanediisocyanate, octylamine and oleylamine (molar ra-
tio1:1.86:0.14):		
Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	:	EC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
Molybdenum trioxide, reaction phosphate:	on	products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithio-
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h



GLP: yes

Test Type: semi-static test

Method: OECD Test Guideline 203

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			Remarks: May cause long-term ac environment.	lverse effects in the aquation
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes	
Toxic plants	ity to algae/aquatic s	:	EC50 (Pseudokirchneriella subcar mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
resid	ual oils (petroleum), h	ydro	treated:	
Toxic	ity to fish	:	LC50 (Pimephales promelas (fathe Exposure time: 96 h Test Type: static test	ead minnow)): > 100 mg/l
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: Immobilization	a)): > 10.000 mg/l
.2 Pers	istence and degradabi	lity		
Prod	uct:			
Biode	egradability	:	Remarks: No data available	
Phys ity	ico-chemical removabil-	:	Remarks: No data available	
<u>Com</u>	ponents:			
		vlme	thanediisocyanate, octylamine a	, .
		,		nd oleylamine (molar ra-
tio1:	ion product of diphen 1.86:0.14): egradability	:	Test Type: Primary biodegradation Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 10 % Exposure time: 28 d Method: OECD Test Guideline 30 GLP: yes)
tio1: Biode	1.86:0.14): egradability	:	Test Type: Primary biodegradation Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 10 % Exposure time: 28 d Method: OECD Test Guideline 30	IF



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



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	/bdenum trioxide, reac sphate:	ction	products with bis[O,O-bis(2-ethylhexy	l)] hydrogen dithio-
Biod	egradability	:	Result: Not rapidly biodegradable Biodegradation: 11 % Exposure time: 28 d Method: OECD Test Guideline 301B	
resid	dual oils (petroleum), h	hydro	otreated:	
Biod	egradability	:	Result: Not rapidly biodegradable	
12.3 Bioa	accumulative potential			
Prod	luct:			
Bioa	ccumulation	:	Remarks: This mixture contains no subs be persistent, bioaccumulating and toxid This mixture contains no substance con persistent and very bioaccumulating (vF	c (PBT). sidered to be very
Com	ponents:			
	tion product of diphen 1.86:0.14):	nylmo	ethanediisocyanate, octylamine and ol	eylamine (molar ra-
	tion coefficient: n- nol/water	:	log Pow: > 6	
Con	densation products of	fatty	/ acids, tall oil with 2-amino-2-ethylpro	panediol:
Bioa	ccumulation	:	Bioconcentration factor (BCF): < 100	
	tion coefficient: n- nol/water	:	log Pow: 9,01	
	/bdenum trioxide, reac sphate:	ction	products with bis[O,O-bis(2-ethylhexy	I)] hydrogen dithio-
	tion coefficient: n- nol/water	:	log Pow: > 4	
12.4 Mob	ility in soil			
Proc	luct:			
Mobi	ility	:	Remarks: No data available	
	ibution among environ- tal compartments	:	Remarks: No data available	
12.5 Res	ults of PBT and vPvB a	asse	ssment	
Prod	luct:			
Asse	essment	:	This substance/mixture contains no con	nponents considered



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to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 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.

12.7 Other adverse effects

Product:

Additional ecological infor-	:	No information on ecology is available.
mation		

Components:

Molybdenum trioxide, react phosphate:	tion products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithio-	
Additional ecological infor- mation	: May cause long lasting harmful effects to aquatic life.	

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 the unused product. Dispose of waste product or used containers according to local regulations.
	The following Waste Codes are only suggestions:
Waste Code :	used product, unused product 12 01 12*, spent waxes and fats
	uncleaned packagings



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15 01 10*, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

ADN:Not regulated as a dangerous goodADR:Not regulated as a dangerous goodRID:Not regulated as a dangerous goodIMDG:Not regulated as a dangerous goodIATA:Not regulated as a dangerous goodADN:Not regulated as a dangerous goodADN:Not regulated as a dangerous goodADN:Not regulated as a dangerous goodADR:Not regulated as a dangerous goodADR:Not regulated as a dangerous goodMDG:Not regulated as a dangerous goodIMDG:Not regulated as a dangerous goodIATA:Not regulated as a dangerous goodIMDG:Not regulated as a dangerous goodIMDG:Not regulated as a dangerous goodIATA:Not regulated as a dangerous goodIMDG:Not regulated as a dangerous goodADN:Not regulated as a dangerous goodIMDG:Not regulated as a
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IATA (Cargo):Not regulated as a dangerous goodIATA (Passenger):Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good
14.5 Environmental hazards
ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good



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IMDG	: Not regulated as a dangerous good		
14.6 Special precaution	is for user		
Not applicable			
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 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: 0,48 %

Other regulations:

Legislative Decree April 9,2008, 81 (Implementation of Article 1 of the Law of 3 August 2007, n. 123, concerning the protection of health and safety in the workplace.) and subsequent amend-



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ments

Legislative Decree April 3, 2006, n.152, (Environmental standards) and subsequent amendments

Legislative Decree February 6, 2009, 21 (Regulations for the execution of the provisions laid down in Regulation (EC) no. 648/2004 on detergents)

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.
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 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method"Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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 - Interna-



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tional 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

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