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OKS 220

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1.6	01.08.2022	Date of first issue: 20.03.2014	01.08.2022

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : OKS 220

Manufacturer or supplier's c	leta	Manufacturer or supplier's details						
Company name of supplier	:	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						
Emergency telephone number	:	+7 495 628 1687 +49 8142 3051 517						
Recommended use of the chemical and restrictions on use								
Recommended use	:	Lubricant						
Restrictions on use	:	Restricted to professional users.						

2. HAZARDS IDENTIFICATION

GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425)Skin irritation: Category 2				
Serious eye damage	:	Category 1		
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)		
GHS-Labelling (According to	o G	OST 31340)		
Hazard pictograms	:			
Signal word	:	Danger		
Hazard statements	:	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.		
Precautionary statements	:	Prevention:		



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		P264 Wash skin thoroughly after P271 Use only outdoors or in a w P280 Wear protective gloves/ eye	ell-ventilated area.
		Response: P304 + P340 + P312 IF INHALED and keep comfortable for breathir doctor if you feel unwell. P305 + P351 + P338 + P310 IF II water for several minutes. Remov and easy to do. Continue rinsing. CENTER/ doctor.	ng. Call a POISON CENTER/ N EYES: Rinse cautiously with ve contact lenses, if present
		Storage: P403 + P233 Store in a well-vent	ilated place. Keep container

tightly closed.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	:	Mixture
Chemical nature	:	Synthetic hydrocarbon oil Molybdenum disulfide solid lubricant

Components

Chemical name	Concentration (% w/w)	Occupational E Limits	xposure	CAS-No.	EC-No.
		MAC value mg/m3 / TSEL value	Hazard Class		
molybdenum disulphide	>= 20 - < 30	MPC-TWA: 1 mg/m3 Data Source: RU OEL	3	1317-33-5	215-263-9
		MPC-STEL: 6 mg/m3 Data Source: RU OEL	3		
		MPC-TWA: 1 mg/m3 Data Source: RU OEL	3		







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			MPC-STEL: 6 mg/m3 Data Source: RU OEL	3		
calciur	n dihydroxide	>= 20 - < 30	MPC-STEL: 2 mg/m3 Data Source: RU OEL	3, +	1305-62-0	215-137-3

4. 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. In case of skin contact Take off all contaminated clothing immediately. t 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. Get medical attention immediately. If swallowed Move the victim to fresh air. : If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Most important symptoms Causes skin irritation. : and effects, both acute and Skin contact may provoke the following symptoms: delayed Erythema Notes to physician : Treat symptomatically.



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5. FIREFIGHTING MEASURES

Flammable properties		
Flash point Ignition temperature	:	Not applicable No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	Carbon oxides Sulphur oxides Metal oxides
Further information	:	Standard procedure for chemical fires.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	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.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.



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7. HANDLING AND STORAGE

Advice on safe handling :	Do not use in areas without adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. 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. 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.
Conditions for safe storage :	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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Data Source
molybdenum disulphide	1317-33-5	MPC-TWA	1 mg/m3	RU OEL
		(aerosol)		(2011-07-12)
	Further inform	ation: Class 3 - I	Dangerous	
		MPC-STEL	6 mg/m3	RU OEL
		(aerosol)		(2011-07-12)
	Further information: Class 3 - Dangerous			
		MPC-TWA	1 mg/m3	RU OEL
		(aerosol)	(Molybdenum)	(2021-02-03)
	Further inform	ation: Class 3 - I	Moderately dangerou	S
		MPC-STEL	6 mg/m3	RU OEL
		(aerosol)	(Molybdenum)	(2021-02-03)
	Further inform	ation: Class 3 - I	Moderately dangerou	S
calcium dihydroxide	1305-62-0	TWA	1 mg/m3	2017/164/EU
-		(Respirable	_	(2017-02-01)
		fraction)		



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			STEL (Respirable fraction)	4 mg/m3	2017/164/E0 (2017-02-01
			MPC-STEL (aerosol)	2 mg/m3	RU OEL (2021-02-03
			Further information: Class 3 - which require special skin and		is, Substance:
Engir	neering measures	:	Effective exhaust ventilation	system	
Perso	onal protective equip	oment			
Respi	ratory protection	:	Not required; except in case	of aerosol formation.	
Fil	ter type	:	Filter type A-P		
Ma Bro	protection aterial eak through time otective index	:	butyl-rubber > 10 min Class 1		
Re	emarks	:	Wear protective gloves. The amongst other things on the type of glove and therefore h case.	material, the thicknes	s and the
Eye p	rotection	:	Tightly fitting safety goggles		
Skin a	and body protection	:	Choose body protection in re concentration and amount of the specific work-place.		
Prote	ctive measures	:	The type of protective equipr to the concentration and amo at the specific workplace.		
Hygie	ne measures	:	Wash face, hands and any e handling.	xposed skin thorough	ly after

9. PHYSICAL AND CHEMICAL PROPERTIES

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



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рН		:	Not applicable substance/mixture is non-soluble (in wat	er)
Melting	g point/range	:	No data available	
Boiling	point/boiling range	:	No data available	
Flash p	point	:	Not applicable	
Evapo	ration rate	:	No data available	
Flamm	ability (solid, gas)	:	Combustible Solids	
Self-ig	nition	:	No data available	
	explosion limit / Upper ability limit	:	No data available	
	explosion limit / Lower ability limit	:	No data available	
Vapou	r pressure	:	< 0,001 hPa (20 °C)	
Relativ	e vapour density	:	No data available	
Relativ	e density	:	1,4 (20 °C) Reference substance: Water The value is calculated	
Density	у	:	1,40 g/cm3 (20 °C)	
Bulk de	ensity	:	No data available	
Solubil Wa	ity(ies) ter solubility	:	insoluble	
Sol	ubility in other solvents	; ;	No data available	
Partitic octano	n coefficient: n- I/water	:	No data available	
Auto-ig	nition temperature	:	No data available	
Decom	position temperature	:	No data available	
Viscos Visc	ity cosity, dynamic	:	No data available	
Viso	cosity, kinematic	:	Not applicable	



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Explo	osive properties	: Not explosive	
Oxidi	zing properties	: No data available	
Subli	mation point	: No data available	
Meta	l corrosion rate	: Not corrosive to metals	

10. STABILITY AND REACTIVITY

Reactivity	No hazards to be specially mentioned.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous reactions	No dangerous reaction known under conditions of norm	nal use.
Conditions to avoid	No conditions to be specially mentioned.	
Incompatible materials	No materials to be especially mentioned.	
Hazardous decomposition products	No decomposition if stored and applied as directed.	

11. TOXICOLOGICAL INFORMATION

Product: Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: Irritating to respiratory system.
		Symptoms: Inhalation may provoke the following symptoms:, Local irritation, Respiratory disorders
		Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Symptoms: Redness, Local irritation



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Com	ponents:			
-	ybdenum disulphide: e oral toxicity	:	LD50 (Rat): > 5.000 mg/kg	
Acut	e dermal toxicity	:	LD50 (Rat): > 16.000 mg/kg	
calc	ium dihydroxide:			
Acut	e oral toxicity	:	Method: OECD Test Guideline 425 GLP: yes	5
			Assessment: The substance or mit toxicity	xture has no acute oral
Acut	e inhalation toxicity	:	LC50 (Rat, male and female): > 6, Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 GLP: yes	-
Acut	e dermal toxicity	:	LD50 (Rabbit, male and female): > Method: OECD Test Guideline 402 Assessment: The substance or mit toxicity	2
Skin	corrosion/irritation			
	<mark>luct:</mark> arks	:	Irritating to skin.	
Com	ponents:			
-	ybdenum disulphide:		No. 2112 1200 and a	
Resi	essment ult	:	No skin irritation No skin irritation	
	ium dihydroxide:		human skin	
	essment	:	Irritating to skin.	
Meth Resu GLP	ult	:	OECD Test Guideline 431 Irritating to skin. yes	



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 Spec Asse Meth Resu GLP	ssment od	 Rabbit Irritating to skin. OECD Test Guideline 404 Irritating to skin. 	
GLF		: yes	

Serious eye damage/eye irritation

Product:

Remarks

: Risk of serious damage to eyes.

Components:

molybdenum disulphide:

Result	:	No eye irritation
Assessment	:	No eye irritation

calcium dihydroxide:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Assessment	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
GLP	:	yes

Respiratory or skin sensitisation

Product:

Remarks

: This information is not available.

Components:

molybdenum disulphide:

Assessment	:	Does not cause skin sensitisation.
Result	:	Does not cause skin sensitisation.

calcium dihydroxide:

Test Type :	Local lymph node assay (LLNA)
Species :	Mouse
Assessment :	Does not cause skin sensitisation.
Method :	OECD Test Guideline 429
Result :	Does not cause skin sensitisation.
GLP :	yes



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Gern cell mutagenicity Produci: Genotoxicity in vitro : Remarks: No data available Genotoxicity in vitro : Remarks: No data available Components: : Remarks: No data available Molybdenum disulphide: : Animal testing did not show any mutagenic effects. Assessment : Test Type: Ames test Genotoxicity in vitro : Test Type: Ames test Calcium dihydroxide: : Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 471 Result: negative GLP: yes : Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 473 Result: negative GLP: yes : Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes : Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes : Test Type: In vitro mammalian cell gene mutation test Method: DECD Test Guideline 476 : No data available Carcinogenicity : No data available Carcinogenicity : No data available Carcinogenicity : No evidence of carcinogenicity in animal studies. <th>ersion S</th> <th>Revision Date: 01.08.2022</th> <th></th> <th>e of last issue: 28.06.2021 e of first issue: 20.03.2014</th> <th>Print Date: 01.08.2022</th>	ersion S	Revision Date: 01.08.2022		e of last issue: 28.06.2021 e of first issue: 20.03.2014	Print Date: 01.08.2022
Product: Genotoxicity in vitro : Remarks: No data available Genotoxicity in vitro : Remarks: No data available Genotoxicity in vitro : Remarks: No data available Components: molybdenum disulphide: Gern cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects. Calcium dihydroxide: : Animal testing did not show any mutagenic effects. Genotoxicity in vitro : Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Test Type: No vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Test Type: No vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes No data available Components: No data					
Genotoxicity in vitro : Remarks: No data available Genotoxicity in vivo : Remarks: No data available Components: molybdenum disulphide: : Gern cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects. Calcium dihydroxide: : : Animal testing did not show any mutagenic effects. Genotoxicity in vitro : Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity : No data available Components: : No data available Carcinogenicity - : No evidence of carcinogenicity in animal studies.	Germ	cell mutagenicity			
Genotoxicity in vivo : Remarks: No data available Components:					
Components: molybdenum disulphide: Germ cell mutagenicity - Animal testing did not show any mutagenic effects. Assessment Animal testing did not show any mutagenic effects. calcium dihydroxide: Enotoxicity in vitro Genotoxicity in vitro Intest Type: Ames test Method: CECD Test Guideline 471 Regative GLP: yes Test Type: Chromosome aberration test in vitro Method: CECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity No data available Components: No data available Carcinogenicity - No evidence of carcinogenicity in animal studies.	Genot	toxicity in vitro	:	Remarks: No data available	
molybdenum disulphide: Animal testing did not show any mutagenic effects. Germ cell mutagenicity - Animal testing did not show any mutagenic effects. Assessment Calcium dihydroxide: Genotoxicity in vitro Image: Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes Genotoxicity in vitro Image: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Image: No data available Components: Image: No data available Carcinogenicity - Image: No evidence of carcinogenicity in animal studies.	Genot	toxicity in vivo	:	Remarks: No data available	
Germ cell mutagenicity - Assessment Animal testing did not show any mutagenic effects. Assessment calcium dihydroxide: Genotoxicity in vitro : Genotoxicity in vitro : Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Carcinogenicity Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity : Product: Remarks : No data available : Components: molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.	<u>Comr</u>	oonents:			
Assessment calcium dihydroxide: Genotoxicity in vitro : Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Product: Remarks : No data available Camponents: molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.	moly	odenum disulphide:			
Genotoxicity in vitro : Test Type: Ames test Method: OECD Test Guideline 471 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Product: Remarks : No data available Components: molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.			:	Animal testing did not show any	mutagenic effects.
Method: OECD Test Guideline 471 Result: negative GLP: yes Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Product: Remarks : No data available Components: molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.	calciı	ım dihydroxide:			
Method: OECD Test Guideline 473 Result: negative GLP: yes Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Product: Remarks : No data available Components: molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.	Genot	toxicity in vitro	:	Method: OECD Test Guideline 4 Result: negative	171
Method: OECD Test Guideline 476 Result: negative GLP: yes Carcinogenicity Product: Remarks : No data available Components: molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.				Method: OECD Test Guideline 4 Result: negative	
Product: No data available Remarks : No data available Components:				Method: OECD Test Guideline 4 Result: negative	
Remarks : No data available Components:	Carci	nogenicity			
Components: molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.	<u>Produ</u>	<u>ıct:</u>			
molybdenum disulphide: Carcinogenicity - : No evidence of carcinogenicity in animal studies.	Rema	ırks	:	No data available	
Carcinogenicity - : No evidence of carcinogenicity in animal studies.	<u>Com</u> r	oonents:			
Assessment	Carcir	nogenicity -	:	No evidence of carcinogenicity i	n animal studies.
calcium dihydroxide:	calciı	ım dihydroxide:			



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	nogenicity - ssment	:	No evidence of carcinogenicity in	n animal studies.
Repro	oductive toxicity			
Produ	uct:			
Effect	ts on fertility	:	Remarks: No data available	
	ts on foetal opment	:	Remarks: No data available	
<u>Com</u>	oonents:			
calciu	um dihydroxide:			
	oductive toxicity -	:	- Fertility -	
Asses	ssment		No toxicity to reproduction - Teratogenicity -	
			No effects on or via lactation	
STOT	- single exposure			
Com	oonents:			
-	bdenum disulphide:			
-	ssment	:	The substance or mixture is not organ toxicant, single exposure.	classified as specific target
calciu	um dihydroxide:			
Asses	ssment	:	May cause respiratory irritation.	
STOT	- repeated exposure	;		
Com	oonents:			
	bdenum disulphide:			
-	ssment	:	The substance or mixture is not organ toxicant, repeated exposu	
Repe	ated dose toxicity			
Produ	uct:			
Rema		:	This information is not available.	



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Aspii	ration toxicity			
<u>Prod</u> This i	uct: information is not ava	ilable.		
Furth	ner information			
<u>Prod</u> Rema		:	Ingestion causes irritation of upp gastrointestinal disturbance.	er respiratory system and
<u>Com</u>	ponents:			
moly	bdenum disulphide	:		
Rema	arks	:	Information given is based on da the toxicology of similar products	•

12. ECOLOGICAL INFORMATION	N	
Ecotoxicity		
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:		
molybdenum disulphide:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h



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Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata mg/l Exposure time: 72 h	a (green algae)): > 100
calciu	m dihydroxide:			
Toxicit	y to fish	:	LC50 (Oncorhynchus mykiss (rainbow Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes	r trout)): 50,6 mg/l
	y to daphnia and other c invertebrates	· :	EC50 (Daphnia magna (Water flea)): 4 Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes	49,1 mg/l
Toxicit plants	y to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes	a (green algae)): 184,57
Ecoto	xicology Assessment	t		
	aquatic toxicity	:	This product has no known ecotoxicol	ogical effects.
Chroni	c aquatic toxicity	:	This product has no known ecotoxicol	ogical effects.
Persis	tence and degradabi	lity		
Produ				
Biodeg	gradability	:	Remarks: No data available	
Physic remova	o-chemical ability	:	Remarks: No data available	
<u>Comp</u>	onents:			
	m dihydroxide: gradability	:	Remarks: The methods for determinin degradability are not applicable to inor	



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Bioaccumulative potential

Product:

Bioaccumulation	 Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Mobility in soil		
<u>Product:</u> Mobility	:	Remarks: No data available
Distribution among environmental compartments	:	Remarks: No data available
Other adverse effects		
Product:		
Additional ecological information	:	No information on ecology is available.

Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)

Components	Air	Water	Soil	Data Source
molybdenum disulphide	Concentration that provides admissible (acceptable) levels of risk when exposed to at least 24 hours - average daily: 0,02 mg/m3 (Molybdenum) Limiting health hazard indicator: resorptive Class 3 - moderately dangerous			
calcium dihydroxide	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time:			







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		0,03 mg/m3 Limiting health hazard indicator: resorptive Class 3 - moderately dangerous Concentration that provides admissible (acceptable) levels of risk when exposed to at least 24 hours - average daily: 0,01 mg/m3 Limiting health hazard indicator: resorptive Class 3 - moderately dangerous			

13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues :	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.
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 15 01 10, packaging containing residues of or contaminated by hazardous substances

14. TRANSPORT INFORMATION

ADR

Not regulated as a dangerous good



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UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

15. REGULATORY INFORMATION

National regulatory information

Federal Law of 10.01.2002 No. 184-FZ "On Technical Regulation".
Federal Law of 10.01.2002 No. 7-FZ "On Environmental Protection".
Federal Law of 21.07.1997 No. 116-FZ (amended on 11.06.2021) "On industrial safety of hazardous production facilities".
Federal Law of 24.06.1998 No. 89-FZ (amended on 02.07.2021) "On production and consumption waste".
Federal Law of 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection".
Federal Law of 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on December 8, 2020).
Federal Law of 30.03.1999 No. 52-FZ (amended on 02.07.2021) "On the Sanitary and Epidemiological Well-Being of the Population" (amended and supplemented, entered into force on 31.10.2021).
Federal Law of 27.12.2002 No. 184-FZ (amended on 02.07.2021) "On Technical Regulation" (amended and supplemented, entered into force on 01.09.2021).

TECHNICAL REGULATIONS OF THE CUSTOMS UNION TR CU 030/2012 On requirements for lubricants, oils and special fluids (amended on 03.03.2017).

16. OTHER INFORMATION

List of data sources used in the preparation of the Safety Data Sheet

GOST 30333-2007. Interstate standard. Safety data sheet for chemical products. Primary requirements.

GOST 12.1.007-76 Occupational safety standards system. Noxious substances. Classification and general safety requirements

GOST 12.1.044-89 Occupational safety standards system. Fire and explosion hazard of substances and materials. Nomenclature of indices and methods of their determination GOST 14192-96. Interstate standard. Cargo marking. Minsk, 1998.

GOST 31340-2013. Interstate standard. Precautionary labeling of chemical products. General requirements.

GOST 32419-2013 Classification of the hazard of chemical products. General requirements.



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GOST 32421-2013 Classification of chemical products, the hazard of which is due to physical and chemical properties. Test methods for explosive chemical products.

GOST 32423-2013 Hazard classification of mixed chemical products by their effects on the body. GOST 32424-2013 Classification of the hazard of chemical products by their impact on the environment. Basic provisions.

GOST 32425-2013 Hazard classification of mixed chemical products in terms of environmental impact.

GOST R 53264-2009 Fire fighting equipment. Special protective clothing for firefighters. General technical requirements. Test methods.

GOST R 53265-2009 Fire fighting equipment. Personal protective equipment for the feet of the firefighter. General technical requirements. Test methods.

GOST R 53268-2009 Fire fighting equipment. Fire rescue belts. General technical requirements. Test methods.

GOST R 53269-2009 Fire fighting equipment. Firefighters helmets. General technical requirements. Test methods.

SanPiN 1.2.3685-21 "Hygienic standards and requirements for ensuring the safety and (or) harmlessness to humans of environmental factors" dated 28.01.2021.

SanPiN 2.1.3684-21 "Sanitary and epidemiological requirements for the maintenance of the territories of urban and rural settlements, for water bodies, drinking water and drinking water supply, atmospheric air, soils, living quarters, the operation of industrial, public premises, the organization and implementation of sanitary and anti-epidemic (preventive) measures".

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). United Nations. New York and Geneva, 20.

International Maritime Dangerous Goods Code (IMDG-Code).

Water quality standards for fishery water bodies, including standards for maximum permissible concentrations of harmful substances in the waters of fishery water bodies (approved by order of the Ministry of Agriculture of Russia dated December 13, 2016 No. 552).

Regulations for the carriage of dangerous goods (Appendix 1 and 2) to the Agreement on International Goods Transport by Rail (SMGS), 2009.

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-first revised edition. United Nations, New York and Geneva, 2019.

Full text of other abbreviations

Acute Tox. Eye Dam. Skin Irrit. STOT SE 2017/164/EU	:	Acute toxicity Serious eye damage Skin irritation Specific target organ toxicity - single exposure Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
RU OEL	:	Russia. Hygienic standards GN 2.2.5.1313-03 Permissible concentration (MAC) of harmful substances in the air of the working area
RU OEL	:	SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
2017/164/EU / STEL	:	Short term exposure limit
2017/164/EU / TWA	:	Limit Value - eight hours
RU OEL / MPC-STEL	:	Maximum Permissible Concentration - Short Term Exposure
RU OEL / MPC-TWA	:	Maximum Permissible Concentration - Time Weighted Average
RU OEL / MPC-STEL	:	Maximum Permissible Concentration - Short Term Exposure
RU OEL / MPC-TWA	:	Maximum Permissible Concentration - Time Weighted Average



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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; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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