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## **OKS 428**

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

Product name	:	OKS 428						
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	:	mcm@oks-germany.com						
responsible for the SDS Emergency telephone number	:	+7 495 628 1687 +49 8142 3051 517						
Recommended use of the chemical and restrictions on use								
Recommended use	:	Grease						
Restrictions on use	:	Restricted to professional users.						

#### 2. HAZARDS IDENTIFICATION

GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425)				
Skin irritation	:	Category 3		
Skin sensitisation	:	Category 1		
GHS-Labelling (According to	o G	OST 31340)		
Hazard pictograms	:			
Signal word	:	Warning		
Hazard statements	:	H316 Causes mild skin irritation. H317 May cause an allergic skin reaction.		
Precautionary statements	:	<b>Prevention:</b> P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves.		





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#### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

# Other hazards which do not result in classification

None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical nature

: polyalkylene glycol oil lithium soap

#### Components

Chemical name	Concentration (% w/w)	Occupational E Limits	xposure	CAS-No.	EC-No.
		MAC value mg/m3 / TSEL value	Hazard Class		
1,3,4-Thiadiazolidine- 2,5-dithione, reaction products with hydrogen peroxide and tert- dodecanethiol	>= 2,5 - < 10	No data available			939-692-2
Molybdenum trioxide, reaction products with bis[O,O-bis(2- ethylhexyl)] hydrogen dithiophosphate	>= 1 - < 2,5	No data available			947-946-9
Condensation products of fatty acids, tall oil with 2-amino-2- ethylpropanediol	>= 1 - < 10	No data available			946-010-7

#### 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



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		respiration.	
In ca	se of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Wash off immediately with soap and plenty of water.</li> <li>Get medical attention immediately if irritation develops persists.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>	and
In ca	se of eye contact	<ul> <li>Rinse immediately with plenty of water, also under the for at least 10 minutes.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>	eyelids,
lf swa	allowed	<ul> <li>Move the victim to fresh air.</li> <li>If unconscious, place in recovery position and seek me advice.</li> <li>Keep respiratory tract clear.</li> <li>Do not induce vomiting without medical advice.</li> <li>Never give anything by mouth to an unconscious perso</li> </ul>	
	important symptoms effects, both acute and /ed	: May cause an allergic skin reaction. No symptoms known or expected.	
Note	s to physician	: Treat symptomatically.	

#### **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 Nitrogen oxides (NOx) Sulphur oxides





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			Oxides of phosphorus Metal oxides	
Furt	her information	:	Standard procedure for chemical f	ïres.
Special protective equipment for firefighters		:	In the event of fire, wear self-conta Use personal protective equipmen Exposure to decomposition produc health.	nt.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Ensure adequate ventilation. 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	:	Pick up and transfer to properly labelled containers.

## 7. HANDLING AND STORAGE

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. Do not get on skin or clothing. 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.





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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Components with workplace control parameters</b> Contains no substances with occupational exposure limit values.						
Engineering measures	:	none				
Personal protective equipment						
Respiratory protection	:	Not required; except in case of aerosol formation.				
Filter type	:	Filter type P				
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.				
Eye protection	:	Safety glasses				
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.				
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.				
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.				

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	brown
Odour	:	characteristic



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Odou	ur Threshold	:	No data available	
рН		:	Not applicable substance/mixture is non-soluble	(in water)
Melti	ng point/range	:	No data available	
Boilir	ng point/boiling range	:	No data available	
Flash	n point	:	Not applicable	
Evap	oration rate	:	No data available	
Flam	mability (solid, gas)	:	Combustible Solids	
Self-i	gnition	:	No data available	
	er explosion limit / Upper nability limit	:	No data available	
	er explosion limit / Lower nability limit	:	No data available	
Vapo	our pressure	:	< 0,001 hPa (20 °C)	
Relat	tive vapour density	:	No data available	
Relat	tive density	:	0,99 (20 °C) Reference substance: Water The value is calculated	
Dens	iity	:	0,99 g/cm3 (20 °C)	
Bulk	density	:	No data available	
	pility(ies) /ater solubility	:	insoluble	
S	olubility in other solvents	s :	No data available	
	tion coefficient: n- nol/water	:	No data available	
Auto-	ignition temperature	:	No data available	
Deco	mposition temperature	:	No data available	
Visco	osity			





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Vi	iscosity, dynamic	: No data available	
Vi	iscosity, kinematic	: Not applicable	
Explo	osive properties	: Not explosive	
Oxidi	izing properties	: No data available	
Subli	mation point	: No data available	
Partie	cle size	: Not applicable	

#### **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 normal 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**

#### 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-dithione, reaction products with hydrogen peroxide and tertdodecanethiol: Acute oral toxicity 1050 (Bat): > 5000 mg/kg

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg



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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	
	bdenum trioxide, re ophosphate:	action	products with bis[O,O-bis(2-ethy	/lhexyl)] hydrogen
	e dermal toxicity	:	Symptoms: Redness, Local irritati	on
	-	-	acids, tall oil with 2-amino-2-eth	ylpropanediol:
Acute	e oral toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 42 Assessment: The substance or m toxicity	-
Acute	e dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 40 Assessment: The substance or m toxicity	
Skin	corrosion/irritation			
Prod	uct:			
Rema	arks	:	This information is not available.	
<u>Com</u>	ponents:			
	-Thiadiazolidine-2,5 canethiol:	-dithio	ne, reaction products with hydro	gen peroxide and tert-
Speci Asses Resu	ssment	:	Rabbit No skin irritation No skin irritation	
	bdenum trioxide, re ophosphate:	action	products with bis[O,O-bis(2-ethy	/lhexyl)] hydrogen
Asses Resu	ssment It	:	Irritating to skin. Irritating to skin.	
Rema	arks	:	Irritating to skin.	





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

Species	:	reconstructed human epidermis (RhE)
Assessment	:	No skin irritation
Result :	:	No skin irritation

#### 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
Result	:	No eye irritation
Assessment	:	No eye irritation

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

Result	:	No eye irritation
Assessment	:	No eye irritation

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

Species	:	Rabbit
Result	:	No eye irritation
Assessment	:	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.





OKS 428         Version       Revision Date:       Date of last issue: 25.04.2022       Print Date:         2.3       02.04.2024       Date of first issue: 20.03.2014       02.04.2024         Result       :       Does not cause skin sensitisation.         Molybdenum trioxide, reaction products with bis[0,0-bis(2-ethylhexyl)] hydrogen dithiophosphate:       Assessment       :         Assessment       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Assessment       :       May cause sensitisation by skin contact.         Result       :       May cause sensitisation by skin contact.         Result       :       May cause sensitisation by skin contact.         Result       :       May cause sensitisation by skin contact.         Gern cell mutagenicity       :       May cause sensitisation by skin contact.         Genotoxicity in vitro       :       Remarks: No data
2.3       02.04.2024       Date of first issue: 20.03.2014       02.04.2024         Result       :       Does not cause skin sensitisation.         Molybdenum trioxide, reaction products with bis[0,0-bis(2-ethylhexyl)] hydrogen dithiophosphate:       Assessment       :         Assessment       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         Result       :       May cause sensitisation by skin contact.         Result       :       May cause sensitisation by skin contact.         Result       :       May cause sensitisation by skin contact.         Gern cell mutagenicity       :       May cause sensitisation by skin contact.         Product:       :       Remarks: No data available         Genotoxicity in vitro       :       Remarks: No data available         Components:       :       Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       :       Remarks: In vitro tests did not show mutagenic effects
Molybdenum trioxide, reaction products with bis[O,O-bis(2-ethylhexyl)] hydrogen dithiophosphate:         Assessment       :         Assessment       :         Result       :         The product is a skin sensitiser, sub-category 1B.         Result       :         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Assessment       :         May cause sensitisation by skin contact.         Result       :         Germ cell mutagenicity         Product:         Genotoxicity in vitro       :         Remarks: No data available         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       :         Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity         Product:
dithiophosphate:       Assessment       :       The product is a skin sensitiser, sub-category 1B.         Result       :       The product is a skin sensitiser, sub-category 1B.         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.         Result       :         May cause sensitisation by skin contact.         Germ cell mutagenicity         Product:         Genotoxicity in vitro       :         Remarks: No data available         Genotoxicity in vivo       :         Remarks: No data available         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vivo       :         Remarks: No data available         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       :         Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity         Product:
Assessment       1       The product is a skin sensitiser, sub-category 1B.         Result       1       The product is a skin sensitiser, sub-category 1B.         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:       Assessment       1         Assessment       1       May cause sensitisation by skin contact.         Result       1       May cause sensitisation by skin contact.         Germ cell mutagenicity       1       May cause sensitisation by skin contact.         Product:       1       Remarks: No data available         Genotoxicity in vitro       1       Remarks: No data available         Components:       1       Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       1       Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity       Product:       In vitro tests did not show mutagenic effects
Assessment       :       May cause sensitisation by skin contact.         Result       :       May cause sensitisation by skin contact.         Germ cell mutagenicity
Result       : May cause sensitisation by skin contact.         Germ cell mutagenicity         Product:         Genotoxicity in vitro       : Remarks: No data available         Genotoxicity in vivo       : Remarks: No data available         Components:         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       : Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity         Product:
Product:       Genotoxicity in vitro       : Remarks: No data available         Genotoxicity in vivo       : Remarks: No data available         Components:       : Remarks: No data available         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       : Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity         Product:
Genotoxicity in vitro       : Remarks: No data available         Genotoxicity in vivo       : Remarks: No data available         Components:       : Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       : Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity       : Remarks: In vitro tests did not show mutagenic effects         Product:       : Ether in vitro
Genotoxicity in vivo       : Remarks: No data available         Components:       Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       : Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity       Product:
Components:         Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       : Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity         Product:
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:         Genotoxicity in vitro       : Remarks: In vitro tests did not show mutagenic effects         Carcinogenicity         Product:
Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects Carcinogenicity Product:
Product:
Reproductive toxicity
Product:
Effects on fertility : Remarks: No data available
Effects on foetal : Remarks: No data available development
Components:

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



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	oductive toxicity - ssment	:	- Fertility - Animal testing did not show any ef	fects on fertility.
STO	T - single exposure			
<b>Prod</b> Rem		:	No data available	
STO	T - repeated exposu	е		
<b>Prod</b> Rem		:	No data available	
Repe	eated dose toxicity			
<u>Prod</u> Rem		:	This information is not available.	
Aspi	ration toxicity			
<u>Prod</u> This	l <u>uct:</u> information is not ava	ilable.		
Furtl	ner information			
<u>Prod</u> Rem	<u> </u>	:	Information given is based on data the toxicology of similar products.	a on the components and
<u>Com</u>	ponents:			
	bdenum trioxide, rea ophosphate:	action	products with bis[O,O-bis(2-ethy	lhexyl)] hydrogen
Rem		:	Ingestion causes irritation of upper gastrointestinal disturbance.	r respiratory system and



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ECOL	OGICAL INFORMATIO	N		
Ecot	oxicity			
<u>Prod</u> Toxic	l <mark>uct:</mark> sity to fish	:	Remarks: No data available	
	city to daphnia and other tic invertebrates	:	Remarks: No data available	
Toxic plant	city to algae/aquatic s	:	Remarks: No data available	
Toxic	to microorganisms	:	Remarks: No data available	
1,3,4	<u>ponents:</u> -Thiadiazolidine-2,5-di canethiol:	thio	ne, reaction products with hydrog	en peroxide and tert-
Τοχία	sity to fish	:	LC50 (Pimephales promelas (fathe Exposure time: 96 h	ad minnow)): > 1.000 mg
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h	)): 41 mg/l
Toxic plant	city to algae/aquatic s	:	EC50 (Pseudokirchneriella subcap mg/l Exposure time: 72 h	itata (microalgae)): > 100
Toxic	city to microorganisms	:	EC50 (Pseudomonas putida): > 8.0 Exposure time: 16 h	000 mg/l
	bdenum trioxide, reac ophosphate:	tion	products with bis[O,O-bis(2-ethyl	hexyl)] hydrogen
Toxic	bity to fish	:	LC50 (Oncorhynchus mykiss (raint Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes	





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			Remarks: May cause long-term a environment.	dverse effects in the aquatic
	city to daphnia and othe tic invertebrates	er :	EC50 (Daphnia magna (Water fle Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
Toxic plants	sity to algae/aquatic s	:	EC50 (Pseudokirchneriella subca mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
Pers	istence and degradal	oility		
<u>Prod</u>	uct:			
Biode	egradability	:	Remarks: No data available	
	ico-chemical vability	:	Remarks: No data available	
<u>Com</u>	ponents:			
	-Thiadiazolidine-2,5- canethiol:	dithio	ne, reaction products with hydro	gen peroxide and tert-
Biode	egradability	:	Result: Not rapidly biodegradable Biodegradation: 0 % Exposure time: 28 d	
	bdenum trioxide, rea ophosphate:	ction	products with bis[O,O-bis(2-eth	ylhexyl)] hydrogen
	egradability	:	Result: Not rapidly biodegradable Biodegradation: 11 % Exposure time: 28 d Method: OECD Test Guideline 30	
	-	f fatty	/ acids, tall oil with 2-amino-2-eth	
Biode	egradability	:	Result: Not rapidly biodegradable	



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Bioad	ccumulative potentia	I		
Prod	uct:			
Bioac	cumulation	:	Remarks: Product does not conta persistent, bioaccumulative, and to or higher. Product does not contain substan persistent and very bioaccumulat or higher.	toxic (PBT) at levels of 0.19
<u>Com</u>	oonents:			
	Thiadiazolidine-2,5-c canethiol:	dithio	ne, reaction products with hydro	ogen peroxide and tert-
Bioac	cumulation	:	Bioconcentration factor (BCF): 3,	16
	ion coefficient: n- ol/water	:	log Pow: 8	
	bdenum trioxide, rea ophosphate:	ction	products with bis[O,O-bis(2-eth	ylhexyl)] hydrogen
	ion coefficient: n- ol/water	:	log Pow: > 4	
Cond	lensation products o	f fatty	acids, tall oil with 2-amino-2-eth	hylpropanediol:
Bioac	cumulation	:	Bioconcentration factor (BCF): <	100
	ion coefficient: n- ol/water	:	log Pow: 9,01	
Mobi	lity in soil			
<u>Prod</u>	uct:			
Mobil	ity	:	Remarks: No data available	
	bution among onmental compartmen	: ts	Remarks: No data available	
Othe	r adverse effects			
Prod	uct:			
	onal ecological	:	No information on ecology is avai	ilable.



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### 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		

#### 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

#### 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.



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#### Special precautions for user

Not applicable

#### **15. REGULATORY INFORMATION**

#### National regulatory information

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 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 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on December 8, 2020).

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).

Federal Law of 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection". Federal Law of 22.07.2008 No. 123-FZ "Technical Regulations on Fire Safety Requirements" TECHNICAL REGULATIONS OF THE CUSTOMS UNION TR CU 030/2012 On requirements for lubricants, oils and special fluids (amended on 03.03.2017).

#### International Regulations

international regulations		
Montreal Protocol	:	Not applicable
Rotterdam Convention (Prior Informed Consent)	:	Not applicable
Stockholm Convention (Persistent Organic Pollutants)	:	Not applicable

#### **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 12.1.004-91 System of labor safety standards (SSBT). Fire safety. General requirements. GOST 12.1.007-76 Occupational safety standards system. Noxious substances. Classification and general safety requirements

GOST 12.1.044-89 SSBT. Fire and explosion hazard of substances and materials. Nomenclature of indicators and methods for their determination.

GOST 12.4.021 System of labor safety standards (SSBT). Ventilation systems. General requirements.

GOST 12.4.137-2001 Special footwear with leather uppers for protection against oil, oil products, acids, alkalis, non-toxic and explosive dust. Technical conditions.

GOST 12.4.252-2013 System of labor safety standards (SSBT). Means of individual protection of hands. Gloves. General technical requirements. Test methods.



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GOST 14192-96. Interstate standard. Cargo marking. Minsk, 1998.

GOST 19433-88 Dangerous goods. Classification and labeling.

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

GOST 32419-2013 Classification of the hazard of chemical products. General requirements. 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 53264-2019 Fire fighting equipment. Special protective clothing for firefighters. General technical requirements. Test methods.

GOST R 53265-2019 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 53269-2019 Fire fighting equipment. Firefighters helmets. General technical requirements. Test methods.

SanPiN 1.2.2353-08 "Carcinogenic factors and basic requirements for the prevention of carcinogenic hazard".

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". SanPiN 2.2.0.555-96. 2.2. Labor hygiene. Hygienic requirements for working conditions for women. Sanitary rules and regulations.

Carriage of dangerous goods, International maritime dangerous goods (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.

Agreement on International Goods Transport by Rail (SMGS).

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-second revised edition. United Nations, New York and Geneva, 2021. Montreal Protocol (Ozone Depleting Substances)

Stockholm Convention (Persistent Organic Pollutants)

#### Full text of other abbreviations

Aquatic Acute :	Short-term (acute) aquatic hazard
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Skin Irrit. :	Skin irritation
Skin Sens.	Skin sensitisation

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



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(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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