- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

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

Product name : OKS 265

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 chen Recommended use :	nical and restrictions on use Lubricant					

### 2. HAZARDS IDENTIFICATION

Restrictions on use

### GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425)

: Restricted to professional users.

Skin irritation	:	Category 2
Serious eye damage	:	Category 1
Skin sensitisation	:	Category 1
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 2
GHS-Labelling (According to Hazard pictograms	GC :	DST 31340)



Signal word

: Danger



- RU



### **OKS 265**

Version 2.3	Revision Date: 12.07.2023	Date of last issue: 10.07.2023 Date of first issue: 03.06.2014	Print Date: 12.07.2023
Haza	ard statements	: H315 Causes skin irritation. H317 May cause an allergic skir H318 Causes serious eye dama H411 Toxic to aquatic life with lo	ge.
Prec	autionary statements	Prevention: P264 Wash skin thoroughly afte P273 Avoid release to the enviro P280 Wear protective gloves/ ey	onment.
		Response: P305 + P351 + P338 + P310 IF water for several minutes. Remo and easy to do. Continue rinsing CENTER/ doctor. P333 + P313 If skin irritation or r advice/ attention. P391 Collect spillage.	ove contact lenses, if present . Immediately call a POISON

## Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	: Mixture
Chemical nature	: lithium soap solid lubricant Synthetic hydrocarbon oil

#### Components

Chemical name	Concentration (% w/w)	Occupational Exposure Limits		CAS-No.	EC-No.	
		MAC value mg/m3 / TSEL value	Hazard Class			
calcium dihydroxide	>= 10 - < 20	MPC-STEL: 2 mg/m3 Data Source: RU OEL	3, +	1305-62-0	215-137-3	
dizinc pyrophosphate	>= 2,5 - < 10	No data available		7446-26-6	231-203-4	
Ethylene, tetrafluoro-, polymer	>= 1 - < 10	MPC-TWA: 10 mg/m3 Data Source:	f, 4	9002-84-0	618-337-2	



- RU



### **OKS 265**

ersion 3	Revision Date: 12.07.2023		ssue: 10.07.2023 ssue: 03.06.2014		Print Da 12.07.2	
			RU OEL			
di-ter	ethylene bis[3-(3,5- t-butyl-4- oxyphenyl)propionat	>= 1 - < 10	MPC-STEL: 10 mg/m3 Data Source: RU OEL	4	41484-35-9	255-392-
zinc o	oxide	>= 0,25 - < 1	MPC-TWA: 0,5 mg/m3 Data Source: RU OEL	2	1314-13-2	215-222-
			MPC-STEL: 1,5 mg/m3 Data Source: RU OEL	2		
mono	enesulfonic acid, p-C15-36-branched derivs., calcium	>= 0,1 - < 1	No data available		90194-49-3	290-660-

#### 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. 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. Call a physician immediately. If unconscious, place in recovery position and seek medical advice.



- RU



### **OKS 265**

Version 2.3	Revision Date: 12.07.2023	Date of last issue: 10.07. Date of first issue: 03.06.	
Most important symptoms and effects, both acute and delayed		Give small amounts	ting without medical advice. of water to drink. g by mouth to an unconscious person. n.
		Skin contact may pr Erythema Allergic appearance	ovoke the following symptoms:
Note	s to physician	•	ure should be established in consultation onsible for industrial medicine.

### **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 Oxides of phosphorus Halogenated compounds Metal oxides
Further information	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
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.





### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

### 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	:	Do not allow contact with soil, surface or ground water. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

Advice on safe handling	<ul> <li>Avoid contact with skin and eyes.</li> <li>For personal protection see section 8.</li> <li>Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Wash hands and face before breaks and immediately after handling the product.</li> <li>Do not get in eyes or mouth or on skin.</li> <li>Do not get on skin or clothing.</li> <li>Do not repack.</li> <li>These safety instructions also apply to empty packaging which may still contain product residues.</li> <li>Keep container closed when not in use.</li> </ul>
Conditions for safe storage	<ul> <li>Store in original container.</li> <li>Keep container closed when not in use.</li> <li>Keep in a dry, cool and well-ventilated place.</li> <li>Containers which are opened must be carefully resealed and kept upright to prevent leakage.</li> <li>Store in accordance with the particular national regulations.</li> <li>Keep in properly labelled containers.</li> </ul>



- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Data Source
calcium dihydroxide	1305-62-0	TWA (Respirable fraction)	1 mg/m3	2017/164/EU (2017-02-01)
		STEL (Respirable fraction)	4 mg/m3	2017/164/EU (2017-02-01)
		MPC-STEL (aerosol)	2 mg/m3	RU OEL (2021-02-03)
		ation: Class 3 - I special skin and	Moderately dangerou eye protection	s, Substances
Ethylene, tetrafluoro-, polymer	9002-84-0	MPC-TWA (aerosol)	10 mg/m3	RU OEL (2021-02-03)
	Further inform Class 4 - Low		f predominantly fibro	ogenic action,
thiodiethylene bis[3-(3,5-di- tert-butyl-4- hydroxyphenyl)propionate]	41484-35-9	MPC-STEL (aerosol)	10 mg/m3	RU OEL (2021-02-03)
	Further inform	ation: Class 4 - I	_ow hazard	
zinc oxide	1314-13-2	MPC-TWA (aerosol)	0,5 mg/m3	RU OEL (2021-02-03)
	Further inform	ation: Class 2 - I	Highly dangerous	
		MPC-STEL (aerosol)	1,5 mg/m3	RU OEL (2021-02-03)
	Further inform	ation: Class 2 - I	lighly dangerous	,

### Engineering measures : none

### Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type A-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	:	Tightly fitting safety goggles



### **OKS 265**

Version 2.3	Revision Date: 12.07.2023		issue: 10.07.2023 issue: 03.06.2014	Print Date: 12.07.2023
Skin	and body protection	conce	e body protection in relatio ntration and amount of dan ecific work-place.	n to its type, to the gerous substances, and to
Prote	ective measures	to the		must be selected according of the dangerous substance
Hygie	ene measures	: Wash handli	face, hands and any expos ng.	ed skin thoroughly after

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
Colour	:	white
Odour	:	odourless
Odour Threshold	:	No data available
рН	:	Not applicable substance/mixture is non-soluble (in water)
Melting point/range	:	Not applicable
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available



- RU



### **OKS 265**

Version 2.3	Revision Date: 12.07.2023		of last issue: 10.07.2023 of first issue: 03.06.2014	Print Date: 12.07.2023
Va	pour pressure	:	< 0,001 hPa (20 °C)	
Re	lative vapour density	:	No data available	
Re	lative density	:	0,95 (20 °C) Reference substance: Water The value is calculated	
De	nsity	:	0,95 g/cm3 (20 °C)	
Bu	lk density	:	No data available	
So	lubility(ies) Water solubility	:	insoluble	
	Solubility in other solvents	s :	No data available	
	rtition coefficient: n- tanol/water	:	No data available	
Au	to-ignition temperature	:	No data available	
De	composition temperature	:	No data available	
Vis	scosity Viscosity, dynamic	:	No data available	
	Viscosity, kinematic	:	Not applicable	
Ex	plosive properties	:	Not explosive	
Ox	idizing properties	:	No data available	
Su	blimation point	:	No data available	

#### **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	:	>280 °C danger of forming toxic fluorine-containing pyrolysis



- RU



### **OKS 265**

Version 2.3	Revision Date: 12.07.2023	Date of last issue: 10.07.2023 Date of first issue: 03.06.2014	Print Date: 12.07.2023
produ	ucts	products.	
11. TOXIC		ATION	
Acut	e toxicity		
Prod	luct:		
Acute	e oral toxicity	: Symptoms: Pain, Stomach/inte	estinal disorders
Acute	e inhalation toxicity	: Remarks: Risk of delayed pulr Effects of breathing high conc include: Irritating to respiratory system	entrations of vapour may
		Acute toxicity estimate: > 10 n Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method	ng/l
Acute	e dermal toxicity	: Symptoms: Blistering, Rednes	ss, Local irritation
<u>Com</u>	ponents:		
	um dihydroxide: e oral toxicity	: LD50 (Rat, female): > 2.000 m Method: OECD Test Guideline GLP: yes Assessment: The substance o toxicity	9 425
Acute	e inhalation toxicity	: LC50 (Rat, male and female): Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline GLP: yes	
Acute	e dermal toxicity	: LD50 (Rabbit, male and femal Method: OECD Test Guideline Assessment: The substance of toxicity	



- RU



<b>OKS 26</b>	5		
Version 2.3	Revision Date: 12.07.2023	Date of last issue: 10.07.2023 Date of first issue: 03.06.2014	Print Date: 12.07.2023
	<b>c pyrophosphate:</b> e oral toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline GLP: yes Assessment: The substance o toxicity	
Acute	e inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 4,73 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline GLP: yes Assessment: The substance o inhalation toxicity</li> </ul>	
Acute	e dermal toxicity	: LD50 (Guinea pig): > 2.000 m Method: OECD Test Guideline GLP: yes Assessment: The substance o toxicity	
Ethy	lene, tetrafluoro-, po	-	
Acute	e oral toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline	e 401
thiod	liethylene bis[3-(3,5⋅	-di-tert-butyl-4-hydroxyphenyl)propi	onate]:
Acute	e oral toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline	e 401
Acute	e inhalation toxicity	: LC50 (Rat): > 6,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance o inhalation toxicity	or mixture has no acute
Acute	e dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline GLP: yes Assessment: The substance o toxicity	e 402 or mixture has no acute dermal

zinc oxide:



- RU



OKS 265	5		
ersion .3	Revision Date: 12.07.2023	Date of last issue: 10.07.2023 Date of first issue: 03.06.2014	Print Date: 12.07.2023
Acute	oral toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guidelir	ne 401
Acute	inhalation toxicity	: LC50 (Rat): > 5,7 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guidelir Assessment: The substance inhalation toxicity	
Acute	dermal toxicity	: LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guidelir GLP: yes Assessment: The substance toxicity	ne 402 or mixture has no acute dermal
Skin	corrosion/irritation		
Produ	uct:		
Rema	arks	: Causes skin burns. Irritating to skin.	
<u>Com</u>	oonents:		
calciu	um dihydroxide:		
Speci		: human skin	
Asses Metho	ssment	: Irritating to skin. : OECD Test Guideline 431	
Resul		: Irritating to skin.	
GLP		: yes	
Speci	es	: Rabbit	
Asses	ssment	: Irritating to skin.	
Metho		: OECD Test Guideline 404	
Resul GLP	ll.	: Irritating to skin. : yes	
dizino	c pyrophosphate:		
Speci		: human skin	
•	ssment	: No skin irritation	
	-		
Metho Resul		: OECD Test Guideline 439 : No skin irritation	



- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

### Ethylene, tetrafluoro-, polymer:

Species	:	Rabbit
Assessment	:	No skin irritation
Result	:	No skin irritation

#### thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

### zinc oxide:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

#### Serious eye damage/eye irritation

#### Product:

Remarks

: Causes eye burns.

#### **Components:**

#### 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

#### dizinc pyrophosphate:

Species	:	Bovine cornea
Result	:	No eye irritation
Assessment	:	No eye irritation
Method	:	OECD Test Guideline 437
GLP	:	yes

#### Ethylene, tetrafluoro-, polymer:

Species

: Rabbit



- RU



### **OKS 265**

(S 26	5			
rsion	Revision Date: 12.07.2023	Date of last issue Date of first issue		Print Date: 12.07.2023
Resu Asses	lt ssment	: No eye irrita : No eye irrita		
thiod	iethylene bis[3-(3,5	di-tert-butyl-4-hyd	roxyphenyl)propiona	te]:
Speci		: Rabbit		
Resu		: No eye irrita		
Asses	ssment od	: No eye irrita	ition Guideline 405	
Metho	Ju	. OECD Test	Guideline 405	
zinc	oxide:			
Speci		: Rabbit		
Resu		: No eye irrita		
	ssment	: No eye irrita		
Metho GLP	Da	: yes	Guideline 405	
Boon	irotory or skin con	tication		
Prod	iratory or skin sens uct:	tisation		
Rema		: This informa	ation is not available.	
<u>Com</u>	ponents:			
	um dihydroxide:			
Test			node assay (LLNA)	
Speci	ies ssment	: Mouse	use skin sensitisation.	
Metho			Guideline 429	
Resu			use skin sensitisation.	
GLP		: yes		
dizin	c pyrophosphate:			
Test		: Local lymph	node assay (LLNA)	
Speci		: Mouse	· · · · · · · · · · · · · · · · · · ·	
	ssment		se sensitisation on labo	pratory animals.
Metho			Guideline 429	
Resu	It		se sensitisation on labo	pratory animals.
GLP		: yes		
Ethyl	ene, tetrafluoro-, p	lymer:		
Asses	ssment	: Did not cau	se sensitisation on labo	pratory animals.
Resu	lt		se sensitisation on labo	

- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

### thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Maximisation Test
Guinea pig
Does not cause skin sensitisation.
OECD Test Guideline 406
Does not cause skin sensitisation.
yes

Species:Guinea pigAssessment:Does not cause skin sensitisation.Method:OECD Test Guideline 406Result:Does not cause skin sensitisation.GLP:yes	Assessment Method Result	<ul> <li>Does not cause skin sensitisation.</li> <li>OECD Test Guideline 406</li> <li>Does not cause skin sensitisation.</li> </ul>
---	--------------------------------	---

Benzenesulfonic acid, mono-C15-36-branched alk	vl derivs calcium salts:
	<i>j</i> :

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

#### Germ cell mutagenicity

#### Product:

zinc oxide:

Genotoxicity in vitro	:	Remarks: No data available
Genotoxicity in vivo	:	Remarks: No data available

#### **Components:**

### 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





OKS 26	5			
/ersion 3	Revision Date: 12.07.2023		e of last issue: 10.07.2023 e of first issue: 03.06.2014	Print Date: 12.07.2023
			Test Type: In vitro mammalian ce Method: OECD Test Guideline 47 Result: negative GLP: yes	
thiod	liethylene bis[3-(3,5-	-di-tert	-butyl-4-hydroxyphenyl)propiona	ate]:
Geno	otoxicity in vitro	:	Test Type: Ames test Method: OECD Test Guideline 47 Result: negative	1
Geno	otoxicity in vivo	:	Test Type: In vivo micronucleus to Species: Hamster Method: Mutagenicity (micronucle Result: negative	
	n cell mutagenicity - ssment	:	Animal testing did not show any n	nutagenic effects.
zinc	oxide:			
	n cell mutagenicity - ssment	:	Tests on bacterial or mammalian mutagenic effects.	cell cultures did not show
Carc	inogenicity			
<u>Prod</u> Rema		:	No data available	
<u>Com</u>	ponents:			
calci	um dihydroxide:			
Carci	inogenicity - ssment	:	No evidence of carcinogenicity in	animal studies.
Ethy	lene, tetrafluoro-, po	olymer:		
	inogenicity - ssment	:	Not classifiable as a human carci	nogen.
thiod	liethylene bis[3-(3,5·	-di-tert	butyl-4-hydroxyphenyl)propiona	ate]:
	inogenicity - ssment	:	Animal testing did not show any c	arcinogenic effects.



- RU



### **OKS 265**

rsion 3	Revision Date: 12.07.2023		last issue: 10.07.2023 first issue: 03.06.2014	Print Date: 12.07.2023
	<b>oxide:</b> nogenicity - ssment	: No	t classifiable as a human carcir	nogen.
Repro	oductive toxicity			
<u>Produ</u> Effects	<b>ıct:</b> s on fertility	: Re	marks: No data available	
	s on foetal opment	: Re	marks: No data available	
Comp	oonents:			
Repro	Im dihydroxide: oductive toxicity - ssment	Nc - T	ertility - toxicity to reproduction eratogenicity - effects on or via lactation	
	iethylene bis[3-(3,5 oductive toxicity -		yl-4-hydroxyphenyl)propiona ertility -	ate]:
•	sment	Nc	toxicity to reproduction eratogenicity -	
			imal testing did not show any e velopment.	ffects on foetal
	oxide: oductive toxicity - ssment	Nc - T	ertility - toxicity to reproduction eratogenicity - toxicity to reproduction	
STOT	- single exposure			
<u>Produ</u> Rema		: No	data available	



- RU



### **OKS 265**

Version 2.3	Revision Date: 12.07.2023		of last issue: 10.07.2023 of first issue: 03.06.2014	Print Date: 12.07.2023
	<u>ponents:</u>			
	<b>um dihydroxide:</b> ssment	: N	lay cause respiratory irritation.	
-	lene, tetrafluoro-, po	-		
ASSE	ssment		he substance or mixture is not cla rgan toxicant, single exposure.	assined as specific larger
	<b>liethylene bis[3-(3,5</b> ∙ ssment	: Т	utyl-4-hydroxyphenyl)propiona he substance or mixture is not cla rgan toxicant, single exposure.	
-	<b>oxide:</b> ssment		he substance or mixture is not cla	assified as specific target
STO	Γ - repeated exposu		rgan toxicant, single exposure.	
<u>Prod</u> Rema	uct:		lo data available	
	ponents:			
-	<b>lene, tetrafluoro-, po</b> ssment	: T	he substance or mixture is not clar rgan toxicant, repeated exposure	
-	oxide: ssment	: т	he substance or mixture is not cla	assified as specific target
,			rgan toxicant, repeated exposure	
Repe	eated dose toxicity			
<u>Prod</u> Rema		: Т	his information is not available.	



- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

### Components:

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Species	: Rat
NOAEL	: >= 138 mg/kg
Application Route	: Oral
Method	: OECD Test Guideline 408

#### Aspiration toxicity

#### Product:

This information is not available.

### **Components:**

dizinc pyrophosphate:

No aspiration toxicity classification

### Ethylene, tetrafluoro-, polymer:

No aspiration toxicity classification

### thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

No aspiration toxicity classification

### zinc oxide:

No aspiration toxicity classification

#### **Further information**

#### Product:

Remarks

: Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance. Ingestion causes burns of the upper digestive and respiratory tracts.



- RU



### **OKS 265**

ersion 3	Revision Date: 12.07.2023		e of last issue: 10.07.2023 e of first issue: 03.06.2014	Print Date: 12.07.2023
. ECOLO	OGICAL INFORMATIO	N		
Ecoto	oxicity			
<u>Produ</u> Toxici	<u>uct:</u> ty to fish	:	Remarks: Toxic to aquatic organis adverse effects in the aquatic env	
	ty to daphnia and other ic invertebrates	:	Remarks: No data available	
Toxici plants	ty to algae/aquatic	:	Remarks: No data available	
Toxici	ty to microorganisms	:	Remarks: No data available	
<u>Comp</u>	oonents:			
	<b>Im dihydroxide:</b> ty to fish	:	LC50 (Oncorhynchus mykiss (rain Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudokirchneriella subcar mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
Ecoto	oxicology Assessment	t		
Acute	aquatic toxicity	:	This product has no known ecoto>	kicological effects.



- RU



OKS 265	)			
ersion .3	Revision Date: 12.07.2023		e of last issue: 10.07.2023 e of first issue: 03.06.2014	Print Date: 12.07.2023
Chror	nic aquatic toxicity	:	This product has no known ecotox	kicological effects.
	<b>c pyrophosphate:</b> ity to fish	:	LC50 (Danio rerio (zebra fish)): > Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes	-
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
Toxic plants	ity to algae/aquatic	:	EC50 (Pseudokirchneriella subcar mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 20 GLP: yes	
M-Fac toxicit	ctor (Acute aquatic ty)	•	1	
M-Fac toxicit	ctor (Chronic aquatic ty)	:	1	
	iethylene bis[3-(3,5-di- ity to fish	-tert	-butyl-4-hydroxyphenyl)propiona LC50 (Danio rerio (zebra fish)): > 5 Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 Remarks: Aquatic toxicity is unlike	57 mg/l 3
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: No toxicity at the limit of	2
Toxic plants	ity to algae/aquatic	:	EC50 (Desmodesmus subspicatus Exposure time: 72 h Test Type: static test	s (green algae)): > 100 mg,



- RU



OKS 2	65			
Version 2.3			e of last issue: 10.07.2023 e of first issue: 03.06.2014	Print Date: 12.07.2023
			Method: OECD Test Guideline 20 GLP: yes Remarks: No toxicity at the limit of	
			NOEC (Desmodesmus subspicatu Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 207 GLP: yes Remarks: No toxicity at the limit of	1
aqı	xicity to daphnia and othe uatic invertebrates nronic toxicity)	er :	NOEC (Daphnia magna (Water fle Exposure time: 21 d Method: OECD Test Guideline 211	_
To	xicity to microorganisms	:	EC20 (activated sludge): > 100 mg Exposure time: 3 h Test Type: static test Method: OECD Test Guideline 209	
Ec	otoxicology Assessmen	nt		
Aci	ute aquatic toxicity	:	This product has no known ecotox	icological effects.
Ch	ronic aquatic toxicity	:	This product has no known ecotox	icological effects.
zin	c oxide:			
To	xicity to fish	:	LC50 (Danio rerio (zebra fish)): 1,5 Exposure time: 96 h Test Type: static test	55 mg/l
	xicity to daphnia and othe uatic invertebrates	er :	EC50 (Daphnia magna (Water flea Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202	
	xicity to algae/aquatic nts	:	EC50 (Pseudokirchneriella subcap mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 207 GLP: yes	



- RU



### **OKS 265**

Version 2.3	Revision Date: 12.07.2023		e of last issue: 10.07.2023 e of first issue: 03.06.2014	Print Date: 12.07.2023
M-Fa toxici	ctor (Acute aquatic ty)	:	1	
aqua	eity to daphnia and othe tic invertebrates onic toxicity)	r:	(Daphnia magna (Water flea)): 0,04 mg/l Exposure time: 21 d Test Type: semi-static test Method: OECD Test Guideline 211	
M-Fa toxici	ctor (Chronic aquatic ty)	:	1	
Toxic	ity to microorganisms	:	EC50 (activated sludge): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 GLP: yes	
Persi	istence and degradabi	lity		
<u>Prod</u> Biode	<u>uct:</u> egradability	:	Remarks: No data available	
	ico-chemical vability	:	Remarks: No data available	
Com	ponents:			
	<b>um dihydroxide:</b> egradability	:	Remarks: The methods for determining the degradability are not applicable to inorgan	
thiod	liethylene bis[3-(3,5-di	-tert-	butyl-4-hydroxyphenyl)propionate]:	
Biode	egradability	:	Primary biodegradation Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 7 % Exposure time: 28 d Method: OECD Test Guideline 301B	
	oxide:	_	Demositor The methods for deterministic t	
Biode	egradability	:	Remarks: The methods for determining b not applicable to inorganic substances.	iodegradability are



- RU



sion			e of last issue: 10.07.2023 e of first issue: 03.06.2014	Print Date: 12.07.2023
Bioad	ccumulative potential			
<u>Prodi</u> Bioac	<u>uct:</u> cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very
<u>Com</u>	oonents:			
thiod	iethylene bis[3-(3,5-di-	tert	butyl-4-hydroxyphenyl)propionate	ə]:
Bioac	cumulation	:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): <= 1 Exposure time: 56 d Method: OECD Test Guideline 3050	
	ion coefficient: n- ol/water	:	log Pow: 10 (25 °C)	
Mobi	lity in soil			
Prod	uct:			
Mobil	ity	:	Remarks: No data available	
	bution among onmental compartments	:	Remarks: No data available	
Othe	r adverse effects			
	uct: Ional ecological nation	:	Toxic to aquatic life with long lasting	g effects.
<u>Com</u>	oonents:			
Resu	<b>c pyrophosphate:</b> Its of PBT and vPvB ssment	:	This substance is not considered to bioaccumulating and toxic (PBT). T considered to be very persistent an (vPvB).	his substance is not

### Ethylene, tetrafluoro-, polymer:

Results of PBT and vPvB : Non-classified vPvB substance Non-classified PBT substance assessment



- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

### thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Results of PBT and vPvB : Non-classified PBT substance Non-classified vPvB substance assessment

### zinc oxide:

Results of PBT and vPvB	: Remarks: Not applicable
assessment	

### Hygienic standards:

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

Components	Air	Water	Soil	Data Source
calcium dihydroxide	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,03 mg/m3 Limiting health hazard indicator: resorptive Hazard class: 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 Hazard class: Class 3 - moderately dangerous	No data available	No data available	List 1
thiodiethylene bis[3- (3,5-di-tert-butyl-4- hydroxyphenyl)propion ate]	TSEL value: 0,1 mg/m3	No data available	No data available	List 2
zinc oxide	Concentration that provides admissible (acceptable) levels of risk when	No data available	No data available	List 1



- RU



#### **OKS 265** Version Revision Date: Date of last issue: 10.07.2023 Print Date: 12.07.2023 Date of first issue: 03.06.2014 12.07.2023 2.3 exposed to at least 24 hours - average daily: 0,05 mg/m3 (Zinc) Limiting health hazard indicator: resorptive Hazard class: Class 3 - moderately dangerous Concentration that provides permissible (acceptable) levels of risk for chronic (at least 1 year) exposure - average annual: 0,035 mg/m3 (Zinc) Limiting health hazard indicator: resorptive Hazard class: Class 3 - moderately dangerous

For explanation of abbreviations see section 16.

### **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





OKS 26			
Version 2.3	Revision Date: 12.07.2023	Date of last issue: 10.07.2023 Date of first issue: 03.06.2014	
		uncleaned packagings 15 01 10*, packaging co by hazardous substance	ntaining residues of or contaminated s
4. TRAN	SPORT INFORMATION		
ADR			
	umber er shipping name	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY H N.O.S. (dizinc pyrophosphate)</li> </ul>	AZARDOUS SUBSTANCE, SOLID,
Class Packi Label	ing group	: 9 : III : 9	
Tunne	rd Identification Number el restriction code onmentally hazardous	: 90 : (-) : yes	
IATA	-DGR		
UN/IE Prope	) No. er shipping name	<ul> <li>: UN 3077</li> <li>: Environmentally hazardo (dizinc pyrophosphate)</li> </ul>	ous substance, solid, n.o.s.
Class		: 9	
Packi Label	ing group	: III : Miscellaneous Dangerou	is Goods
	ing instruction (cargo	: 956	15 00003
(pass	ing instruction enger aircraft)	: 956	
	onmentally hazardous	: yes	
UN n	<b>3-Code</b> umber er shipping name	<ul> <li>UN 3077</li> <li>ENVIRONMENTALLY H N.O.S. (dizinc pyrophosphate)</li> </ul>	AZARDOUS SUBSTANCE, SOLID,
Label EmS	ing group Is	(dizinc pyrophosphate) : 9 : III : 9 : F-A, S-F : yes	

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

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.



- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

### **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

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.

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

GOST 19433-88 Dangerous goods. Classification and labeling.



- RU



### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

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

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure
2017/164/EU	:	Europe. Commission Directive 2017/164/EU establishing a
		fourth list of indicative occupational exposure limit values
RUOEL	:	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





#### **OKS 265**

Version 2.3	Revision Date: 12.07.2023		e of last issue: 10.07.2023 e of first issue: 03.06.2014	Print Date: 12.07.2023
2017	/164/EU / STEL /164/EU / TWA DEL / MPC-STEL	:	the working area Short term exposure limit Limit Value - eight hours Maximum Permissible Concentra	tion - Short Term Exposure
	DEL / MPC-TWA	:		
List 1		:	SanPiN 1.2.3685-21 Table 1.1, T Maximum permissible concentrat and rural settlements	,
List 2	2	:	SanPiN 1.2.3685-21 Table 1.2, T Tentative Safe Exposure Levels ( rural settlements	

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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### **OKS 265**

Version	Revision Date:	Date of last issue: 10.07.2023	Print Date:
2.3	12.07.2023	Date of first issue: 03.06.2014	12.07.2023

from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.

