according to GB/T 16483 and GB/T 17519  $\ensuremath{\text{CN}}$ 



# **OKS 433**

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### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	OKS 433
Chemical nature	:	Mineral oil. lithium soap
Manufacturer or supplier's de	etai	ls
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

National contact	:					
Emergency telephone number	:	+86 532 8388 9090 (NRCC, only for hazardous chemicals) +86 21 69225521				
Becommended use of the chemical and restrictions on use						

Recommended use of the chemical and restrictions on use						
Recommended use	:	Lubricant				
Restrictions on use	:	Restricted to professional users.				

### 2. HAZARDS IDENTIFICATION

<b>Emergency Overview</b>				
Appearance Colour Odour	: solid : red brown : characteristic			
Causes mild skin irritation. Causes serious eye irritation.				
GHS Classification				
Skin irritation	: Category 3			
Eye irritation	: Category 2A			

### **GHS** label elements



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Haza	ard pictograms					
Sign	al word	: Warning				
Haza	ard statements	: H316 Causes mild skin irritation. H319 Causes serious eye irritation.				
Prec	autionary stateme	Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.				
		Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with wat for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention.				
-	sical and chemic					
		n available information.				
	th hazards	tion. Causes serious eve irritation				
Causes mild skin irritation. Causes serious eye irritation. Environmental hazards Not classified based on available information.						
	<b>er hazards which</b> e known.	do not result in classification				

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

# Components

Chemical name	CAS-No.	Concentration (% w/w)
Phosphorodithioic acid, mixed O,O-bis(2- ethylhexyl and iso-Bu and pentyl) esters, zinc salts	68988-45-4	>= 1 -< 2.5

### 4. FIRST AID MEASURES



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lf in	haled	:	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 c	ase 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 c	ase of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Seek medical advice.
lf sv	vallowed	:	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.
	st important sympto effects, both acute ayed		Causes skin irritation.
Note	es to physician	:	Treat symptomatically.

### **5. FIREFIGHTING MEASURES**

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 Metal oxides
Specific extinguishing methods	:	Standard procedure for chemical fires.
Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.



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for fi	refighters		Use personal protective equipment. Exposure to decomposition products may be a hazard to health.						
6. ACCID	6. ACCIDENTAL RELEASE MEASURES								
prote	conal precautions, active equipment a rgency procedures	Ind	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). Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.						
Envi	ronmental precaut	ions :	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.						
	nods and materials ainment and clean		Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.						

### 7. HANDLING AND STORAGE

### Handling

nanunng		
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 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.
Avoidance of contact	:	No materials to be especially mentioned.
Storage		
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.



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Keep in properly labelled containers.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

Persona	I protective	equipment
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Respiratory protection	:	Not required; except in case of aerosol formation.	
Filter type	:	Filter type A-P	
Eye/face protection	:	Safety glasses with side-shields	
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.	
Hand protection Material Break through time Protective index	:	Nitrile rubber > 10 min Class 1	
Remarks	:	For prolonged or repeated contact use 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.	
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	:	solid
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Colour

: red brown



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	Odou	r	:	characteristic
	Odou	r Threshold	:	No data available
	рН		:	Not applicable substance/mixture is non-soluble (in water)
	Meltir	ng point/range	:	No data available
	Boilin	g point/boiling rang	je :	No data available
	Flash	point	:	> 100 °C
	Evapo	oration rate	:	No data available
	Flamr	nability (solid, gas)	:	No data available
	Self-ię	gnition	:	No data available
		r explosion limit / U nability limit	pper :	No data available
		r explosion limit / L nability limit	ower :	No data available
	Vapo	ur pressure	:	< 0.001 hPa (20 °C)
	Relati	ve vapour density	:	No data available
	Relati	ve density	:	0.9 (20 °C) Reference substance: Water The value is calculated
	Densi	ty	:	0.93 g/cm3 (20 °C)
	Bulk d	density	:	No data available
		ility(ies) ater solubility	:	insoluble
	Sc	olubility in other soly	vents :	No data available
		on coefficient: n- ol/water	:	No data available



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Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available
Sublimation 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 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



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### Skin corrosion/irritation

#### Product:

Remarks

: Irritating to skin.

#### **Components:**

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts:

Assessment	:	Irritating to skin.
Result	:	Skin irritation

#### Serious eye damage/eye irritation

### Product:

Remarks : Irritating to eyes.

#### **Components:**

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts: Result Blindness : As

	-	2
Assessment	:	Risk of serious damage to eyes.

#### Respiratory or skin sensitisation

#### Product:

Remarks

: This information is not available.

#### Germ cell mutagenicity

Product:		
Genotoxicity in vitro	:	Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Carcinogenicity

### Product:

Remarks :		No data available
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### **Reproductive toxicity**

Product:	

Effects on fertility	:	Remarks: No data available
Effects on foetal development	:	Remarks: No data available

### **Repeated dose toxicity**

### Product:

Remarks

: This information is not available.

### Aspiration toxicity

### Product:

This information is not available.

Fur	ther information		

:

# Product:

Remarks

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

### **12. ECOLOGICAL INFORMATION**

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



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### **Components:**

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and pentyl) esters, zinc salts:				
Toxicity to fish	:	LC50 (Fish): > 1 - 10 mg/l Exposure time: 96 h		
Persistence and degradabili	ty			
<u>Product:</u> Biodegradability	:	Remarks: No data available		
Physico-chemical removability	:	Remarks: No data available		
Components:				
Phosphorodithioic acid, mix salts:	ed	O,O-bis(2-ethylhexyl and iso-Bu and pentyl) esters, zinc		
Biodegradability	:	Result: Not readily biodegradable.		
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.		



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### **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.

### **14. TRANSPORT INFORMATION**

#### International Regulations

### UNRTDG

UN number Proper shipping name Class Subsidiary risk Packing group Labels	:	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IATA-DGR		
UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable
IMDG-Code		
UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable



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

Not applicable for product as supplied.

### **National Regulations**

### GB 6944/12268

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels		Not applicable

Special precautions for user

Not applicable

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

#### National regulatory information

#### **Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous Chemicals	:	Not applicable
Hazardous Chemicals for Priority Management under SAWS	:	Not applicable

#### Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals	:	Not applicable
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#### Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import : Not applicable and Export

### International Regulations

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

# The components of this product are reported in the following inventories:

IECSC

: Not in compliance with the inventory



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#### **16. OTHER INFORMATION**

Date format : yyyy/mm/dd

#### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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