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## **OKS 1600**

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

Product name : OKS 1600

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 cl	hem	nical and restrictions on use						
Recommended use	:	Release agent						
Restrictions on use	:	Restricted to professional users.						

### 2. HAZARDS IDENTIFICATION

### GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425) Not a hazardous substance or mixture.

### GHS-Labelling (According to GOST 31340)

Not a hazardous substance or mixture.

## Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	:	Mixture
Chemical nature	:	Aqueous solution Esters

### Components

Chemical name Concentration Occupation (% w/w) Limits	al Exposure CAS-No.	EC-No.
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	MAC value mg/m3 / TSEL value	Hazard Class		
>= 1 - < 10	No data available		110531-96-9	Not Assigned

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 breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	:	Remove contaminated clothing. If irritation develops, get medical attention. In case of contact, immediately flush skin with plenty of water.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	:	Move the victim to fresh air. Do NOT induce vomiting. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	:	No information available. None known.
Notes to physician	:	No information available.

### 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)	:	Not applicable
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



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	Unsuita media	able extinguishing	:	High volume water jet	
	Hazaro produc	lous combustion ts	:	Carbon oxides	
	Furthe	r information	:	Standard procedure for chemical fires.	
		l protective equipment ighters	t :	In the event of fire, wear self-contained by Use personal protective equipment. Exposure to decomposition products may health.	

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

#### 7. HANDLING AND STORAGE

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.
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.

Protect from frost.



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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters					
Contains no substances with occupational exposure limit values.					
Engineering measures	:	none			
Personal protective equipm	ent				
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	:	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.			
Eye protection	:	Safety glasses with side-shields			
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.			
Hygiene measures	:	Wash face, hands and any exposed skin thoroughly after handling.			

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	white
Odour	:	characteristic
Odour Threshold	:	No data available



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рН		:	6 (20 °C) Concentration: 100 %	
Melt	ting point/range	:	No data available	
Boili	ing point/boiling range	:	100 °C	
Flas	sh point	:	Not applicable	
Eva	poration rate	:	No data available	
Flan	nmability (solid, gas)	:	Not applicable	
Self	-ignition	:	No data available	
	er explosion limit / Upper mability limit	:	No data available	
	er explosion limit / Lower mability limit	:	No data available	
Vap	our pressure	:	<= 1.100 hPa (50 °C)	
Rela	ative vapour density	:	No data available	
Rela	ative density	:	0,98 (20 °C) Reference substance: Water The value is calculated	
Den	sity	:	0,98 g/cm3 (20 °C) Method: DIN 51757	
Bulk	density	:	No data available	
	ubility(ies) Vater solubility	:	soluble	
S	Solubility in other solvents	6 :	No data available	
	ition coefficient: n- nol/water	:	No data available	
Auto	o-ignition temperature	:	No data available	
Dec	omposition temperature	:	No data available	
	cosity /iscosity, dynamic	:	No data available	
١	/iscosity, kinematic	:	No data available	





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Explo	osive properties	: Not explosive	
Oxidi	zing properties	: No data available	
Subli	mation point	: No data available	

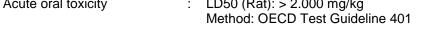
#### **10. STABILITY AND REACTIVITY**

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	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.
<u>Components:</u> :		
Acute oral toxicity	:	LD50 (Rat): > 2.000 mg/kg





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Ski	n corrosion/irritation		
	<u>duct:</u> narks	: This information is not available.	
Ser	ious eye damage/eye	irritation	
<u>Pro</u>	duct:		
Rer	narks	: This information is not available.	
Res	piratory or skin sens	sitisation	
Pro	duct:		
Rer	narks	: This information is not available.	
Ger	m cell mutagenicity		
<u>Pro</u>	duct:		
Ger	notoxicity in vitro	: Remarks: No data available	
Ger	notoxicity in vivo	: Remarks: No data available	
Car	cinogenicity		
Pro	duct:		
Rer	narks	: No data available	
Rep	productive toxicity		
<u>Pro</u>	duct:		
Effe	ects on fertility	: Remarks: No data available	
	ects on foetal elopment	: Remarks: No data available	
Rep	peated dose toxicity		
	duct:		
Rer	narks	: This information is not available.	



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#### Aspiration toxicity

### Product:

This information is not available.

#### **Further information**

## Product:

Remarks

: Information given is based on data on the components and the toxicology of similar products.

#### **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
Components:	
: Toxicity to fish :	LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203
Persistence and degradability	
<u>Product:</u> Biodegradability :	Remarks: No data available

Physico-chemical : Remarks: No data available

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remov	vability			
<u>Comp</u>	oonents:			
:				
Biode	gradability	:	aerobic Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d Method: OECD Test Guideline 301B	
Bioac	cumulative potential			
<u>Produ</u>				
Bioaci	cumulation	:	Remarks: This mixture contains no sub be persistent, bioaccumulating and to This mixture contains no substance co persistent and very bioaccumulating (	xic (PBT). onsidered to be very
<u>Comp</u>	oonents:			
:				
Bioaco	cumulation	:	Remarks: No data available	
Mobil	ity in soil			
<u>Produ</u>	<u>ict:</u>			
Mobili	ty	:	Remarks: No data available	
	oution among onmental compartments	:	Remarks: No data available	
Other	adverse effects			
	<u>ict:</u>			
<u>Produ</u>				

## **13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	The product should not be allowed to enter drains, water courses or the soil.
Contaminated packaging	:	Packaging that is not properly emptied must be disposed of as





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		the unused product. Dispose of waste product or used containers according to local regulations.				
		The following Waste Codes are of	nly suggestions:			
Wast	te Code	: unused product 07 02 01*, aqueous washing liquid	ds and mother liquors			
		uncleaned packagings 15 01 10, packaging containing re by hazardous substances	esidues of or contaminated			

### 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.

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

#### National regulatory information

Federal Law of 10.01.2002 No. 184-FZ "On Technical Regulation".

Federal Law of 10.01.2002 No. 7-FZ "On Environmental Protection".

Federal Law of 21.07.1997 No. 116-FZ (amended on 11.06.2021) "On industrial safety of hazardous production facilities".

Federal Law of 24.06.1998 No. 89-FZ (amended on 02.07.2021) "On production and consumption waste".

Federal Law of 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection". Federal Law of 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on December 8, 2020).

Federal Law of 30.03.1999 No. 52-FZ (amended on 02.07.2021) "On the Sanitary and Epidemiological Well-Being of the Population" (amended and supplemented, entered into force on 31.10.2021).

Federal Law of 27.12.2002 No. 184-FZ (amended on 02.07.2021) "On Technical Regulation" (amended and supplemented, entered into force on 01.09.2021).

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





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## **16. OTHER INFORMATION**

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

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

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

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

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

GOST 32419-2013 Classification of the hazard of chemical products. General requirements. GOST 32421-2013 Classification of chemical products, the hazard of which is due to physical and chemical properties. Test methods for explosive chemical products.

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

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

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

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

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

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

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

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

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

International Maritime Dangerous Goods Code (IMDG-Code).

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

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

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

#### Full text of other abbreviations

Acute Tox.

: Acute toxicity



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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System: GLP - Good Laboratory Practice: IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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