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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier						
	Product name	:	OKS 468				
12	Relevant identified uses of th	10 9	ubstance or mixture and uses advised against				
1.2			_				
	Use of the Sub- stance/Mixture	:	Lubricant				
	Recommended restrictions	:	Restricted to professional users.				
	on use	-	·····				
1.3	Details of the supplier of the	saf	ety data sheet				
	Company	:	OKS Spezialschmierstoffe GmbH				
			Ganghoferstr. 47				
			D-82216 Maisach-Gernlinden				
			Tel.: +49 8142 3051 500				
			Fax.: +49 8142 3051 599 info@oks-germany.com				
			indeoks gemany.com				
	E mail address of parson		mom@aka.gormanu.gom				
	E-mail address of person responsible for the SDS	•	mcm@oks-germany.com Material Compliance Management				
			Matchai Compliance Management				
	National contact						
	National Contact	•					
1.4	1.4 Emergency telephone number						
	Emergency telephone num-	:	+49 8142 3051 517				

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

ber

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.



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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature	:	Synthetic hydrocarbon oil Thickening agent
Components Remarks	:	No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of 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 respira- tion.
In case of skin contact	:	Remove contaminated clothing. If irritation develops, get med- ical attention. Wash off with soap and 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 without medical advice.



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4.2 Most important symptoms and effects, both acute and delayed

Symptoms	:	No information available.
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Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : N

: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod-	:	Carbon oxides
ucts		Metal oxides

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposi- tion products may be a hazard to health.
Further information	:	Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

	Personal precautions	 Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product releat (dust). Avoid breathing dust. Refer to protective measures listed in sections 7 and 8. 	
62	Environmental precautions		

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.



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6.3 Methods and material for containment and cleaning up

2

Methods for cleaning up

Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Wash hands and face before breaks and immediately after handling the product.
Hygiene measures	Wash face, hands and any exposed skin thoroughly after handling.
7.2 Conditions for safe storage, in	cluding any incompatibilities
Requirements for storage areas and containers	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.

7.3 Specific end use(s)

Specific use(s)

: Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
silicon dioxide	Workers	Inhalation		4 mg/m3

8.2 Exposure controls

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.

Personal protective equipment



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Eye p	protection	: Safety glasses with side-shields					
Hand protection Material Break through time Protective index		 Nitrile rubber > 10 min Class 1 	> 10 min				
Remarks		 For prolonged or repeated contact use protective gloves. 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. The selected protective gloves have to satisfy the specific tions of Regulation (EU) 2016/425 and the standard EN 3 derived from it. 	e ca-				
Skin and body protection		: Choose body protection in relation to its type, to the conce tration and amount of dangerous substances, and to the s cific work-place.					
Resp	iratory protection	: Not required; except in case of aerosol formation.					
Fi	lter type	: Filter type A-P					
Prote	ective measures	: The type of protective equipment must be selected accord to the concentration and amount of the dangerous substa at the specific workplace.					

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	colourless
Odour	:	characteristic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit / Upper flammability limit	:	No data available



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		explosion limit / Lower ability limit	:	No data available	
	Flash p	point	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	рН		:	Not applicable substance/mixture is non-soluble (in wat	ter)
	Viscos Viso	ity cosity, dynamic	:	No data available	
	Vise	cosity, kinematic	:	Not applicable	
	Solubil Wa	ity(ies) ter solubility	:	insoluble	
	Sol	ubility in other solvents	3 :	No data available	
	Partitic octano	on coefficient: n- I/water	:	No data available	
	Vapou	r pressure	:	< 0,001 hPa (20 °C)	
	Relativ	e density	:	0,84 (20 °C) Reference substance: Water The value is calculated	
	Density	y	:	0,84 g/cm3 (20 °C)	
	Bulk de	ensity	:	No data available	
	Relativ	e vapour density	:	No data available	
9.2	Other i	nformation			
	Explos	ives	:	Not explosive	
	Oxidizi	ng properties	:	No data available	
	Self-ig	nition	:	not auto-flammable	
	Metal o	corrosion rate	:	Not corrosive to metals	
	Evapo	ration rate	:	No data available	
	Sublim	ation point	:	No data available	
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SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid	:	No conditions to be specially mentioned.
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10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product: Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Remarks: This information is not available.
Skin corrosion/irritation		

Product:

Remarks

: This information is not available.

Serious eye damage/eye irritation

Product:

Remarks :	This information is not available.
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Resp	iratory or skin sensi	tisatior	1	
Prod	uct:			
Rema	arks	:	This information is not available.	
Germ	n cell mutagenicity			
Prod	uct:			
-	otoxicity in vitro	:	Remarks: No data available	
Geno	otoxicity in vivo	:	Remarks: No data available	
Carci	inogenicity			
Prod	uct:			
Rema	arks	:	No data available	
Repr	oductive toxicity			
Prod	uct:			
	ts on fertility	:	Remarks: No data available	
Effect ment	ts on foetal develop-	:	Remarks: No data available	
Repe	ated dose toxicity			
Prod	uct:			
Rema		:	This information is not available.	
Aspir	ration toxicity			
Prod	uct:			
	information is not avai	able.		
11.2 Infor	mation on other haz	ards		
Endo	ocrine disrupting pro	perties		
Prod	uct:			
Asses	ssment		The substance/mixture does not co ered to have endocrine disrupting p REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Re levels of 0.1% or higher.	properties according to n Delegated regulation
Furth	ner information			

Further information

Product:



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

SECTION 12: Ecological information

12.1 Toxicity

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

12.2 Persistence and degradability

Pr	od	uc	t:	

Biodegradability	:	Remarks: No data available
Physico-chemical removabil- ity	:	Remarks: No data available

12.3 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).

12.4 Mobility in soil

Product:		
Mobility	:	Remarks: No data available
Distribution among environ- mental compartments	:	Remarks: No data available

:

12.5 Results of PBT and vPvB assessment

Product:

Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or



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very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components ered to have endocrine disrupting properties according REACH Article 57(f) or Commission Delegated regula (EU) 2017/2100 or Commission Regulation (EU) 2018 levels of 0.1% or higher.
--

12.7 Other adverse effects

Product:		
Additional ecological infor- mation	:	No information on ecology is available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	The product should not be allowed to enter drains, water courses or the soil.
		Waste codes should be assigned by the user based on the application for which the product was used.
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

SECTION 14: Transport information

14.1 UN number or ID number

ADN

: Not regulated as a dangerous good



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ADR		:	Not regulated as a dangerous good	
RID		:	Not regulated as a dangerous good	
IMDO	G	:	Not regulated as a dangerous good	
ΙΑΤΑ	۱.	:	Not regulated as a dangerous good	
14.2 UN p	proper shipping nam	е		
ADN		:	Not regulated as a dangerous good	
ADR		:	Not regulated as a dangerous good	
RID		:	Not regulated as a dangerous good	
IMDO	G	:	Not regulated as a dangerous good	
ΙΑΤΑ	۱.	:	Not regulated as a dangerous good	
14.3 Tran	sport hazard class(e	es)		
ADN		:	Not regulated as a dangerous good	
ADR		:	Not regulated as a dangerous good	
RID		:	Not regulated as a dangerous good	
IMDO	G	:	Not regulated as a dangerous good	
ΙΑΤΑ	۱.	:	Not regulated as a dangerous good	
14.4 Pack	king group			
ADN		:	Not regulated as a dangerous good	
ADR		:	Not regulated as a dangerous good	
RID		:	Not regulated as a dangerous good	
IMDO	G	:	Not regulated as a dangerous good	
ΙΑΤΑ	(Cargo)	:	Not regulated as a dangerous good	
ΙΑΤΑ	(Passenger)	:	Not regulated as a dangerous good	
14.5 Envi	ronmental hazards			
ADN		:	Not regulated as a dangerous good	
ADR		:	Not regulated as a dangerous good	
RID		:	Not regulated as a dangerous good	
IMDO	3	:	Not regulated as a dangerous good	
•	cial precautions for u applicable	user		
	-	k acco	ording to IMO instruments	
Rem	arks	:	Not applicable for product as supplied.	



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)	: This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH),
REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV)	Article 57). : Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer (EC 1005/2009)	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast) (EU POP)	: Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals (EU PIC)	: Not applicable
Seveso III: Directive 2012/18/EU of the European : Parliament and of the Council on the control of major-accident hazards involving dangerous sub- stances.	Not applicable
0 1	of 24 November 2010 on industrial pollution prevention and control)

Other regulations:

Act of 25 February 2011 on chemical substances and their mixtures (i.e. Journal of Laws of 2019, No. 0, item 1225)

Not applicable

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94



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as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

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Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).

Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. Nr. 259, item 2173). Ordinance of the Minister of Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments).

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166 wraz z późn. zm.). Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended). Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).

Act of 13 June 2013. On packaging and packaging waste Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of 18 February 2019 on enforcing of changes Annexes A and B of Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. 2019, item 769).

Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450).

Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of other abbreviations

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; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -



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European Chemicals Agency; EC-Number - European Community number; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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