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

1.1 Produ	uct identifier		
Prod	uct name	:	OKS 100
1.2 Relev	ant identified uses of the	ne s	ubstance or mixture and uses advised against
	of the stance/Mixture	:	solid lubricant
Reco on us	ommended restrictions se	:	Restricted to professional users.
	Is of the supplier of the	saf	-
Com	pany	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 82216 Maisach-Gernlinden Deutschland Tel.: +49 8142 3051 500 Fax: +49 8142 3051 599 info@oks-germany.com
respo	ail address of person onsible for the SDS onal contact	:	mcm@oks-germany.com

## 1.4 Emergency telephone number

Emergency telephone	:	+34 91 562 04 20
number		

## **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

## 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**

#### 3.1 Substances

Chemical nature : Molybdenum disulfide

## Components

Chamical name		Classification	anacifia	Concentration
Chemical name	CAS-No.	Classification	specific	Concentration
	EC-No.		concentration	(% w/w)
			limit	
	Index-No.		M-Factor	
	Registration number		Notes	
	Registration number			
			Acute toxicity	
			estimate	
Substances with a wo	rkplace exposure limit :			
molybdenum	1317-33-5	Not classified		>= 90 - <= 100
disulphide	215-263-9			
alealpinae				

## **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 respiration.





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la se		Demonstra		finitation developed and
In cas	se of skin contact	medical atter	ntion.	f irritation develops, get ush skin with plenty of water
			indet, ininectately in	ush skin with plenty of water
In case of eye contact		: Rinse immediately with plenty of water, also under the for at least 10 minutes.		
		If eye irritatio	n persists, consult a	specialist.
lf swa	allowed		tim to fresh air.	
		Rinse mouth	e vomiting without m with water.	iedical advice.
I.2 Most i	important symptom	s and effects, both a	acute and delayed	
Symp	otoms	: No symptom	s known or expected	I.
Risks	3	: None known		
I.3 Indica	tion of any immedi	te medical attentior	n and special treatn	nent needed
Treat	ment	: Treat sympto	matically.	

51	Extinguishing	modia
J. I	Exunguishing	meula

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	: Sulphur ox	kides
products	Metal oxid	es

## 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 decomposition products may be a hazard to health.
Further information	:	Standard procedure for chemical fires. Cool containers/tanks with water spray.





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## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Evacuate personnel to safe areas.
	Keep people away from and upwind of spill/leak.
	Use the indicated respiratory protection if the occupational
	exposure limit is exceeded and/or in case of product release
	(dust).
	Avoid dust formation.
	Avoid breathing dust.
	Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

: Try to prevent the material from entering drains or water courses.	
0 1 0	
Local authorities should be advised if significant spillages cannot be contained.	
	courses. Prevent further leakage or spillage. Local authorities should be advised if significant spillages

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Clean up promptly by sweeping or vacuum.
		Keep in suitable, closed containers for disposal.
		Avoid dispersal of dust in the air (i.e., clearing dust surfaces
		with compressed air).

## 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	:	Do not use in areas without adequate ventilation. Do not breathe vapours/dust. In case of insufficient ventilation, wear suitable respiratory equipment. 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. Ensure all equipment is electrically grounded before beginning transfer operations. Avoid dust accumulation in enclosed space.
Advice on protection against	:	Avoid dust formation.

fire and explosion

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Hygie	ene measures		/ash face, hands and any exposed s andling.	kin thoroughly after
7.2 Condi	tions for safe storage	, includ	ing any incompatibilities	
		us wl to m ac	tore in original container. Keep container. Keep in a dry, cool and well-vent hich are opened must be carefully reprevent leakage. Electrical installationst comply with the technological saccordance with the particular nationaroperly labelled containers.	ilated place. Containers esealed and kept upright ons / working materials fety standards. Store in
-	f <b>ic end use(s)</b> fic use(s)	: Sp	pecific instructions for handling, not	required.

## **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
molybdenum disulphide	1317-33-5	VLA-ED (inhalable fraction)	10 mg/m3 (Molybdenum)	ES VLA (2015-02-19)
		VLA-ED (respirable fraction)	3 mg/m3 (Molybdenum)	ES VLA (2015-02-19)

#### 8.2 Exposure controls

#### **Engineering measures**

Local exhaust

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

## Personal protective equipment

Eye/face protection	:	Safety glasses with side-shields

## Hand protection

Material	: Nitrile rubber
Break through time	: > 10 min
Protective index	: Class 1



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R	emarks	:	For prolonged or repeated contact break through time depends amo material, the thickness and the ty has to be measured for each case. The selected protective gloves has specifications of Regulation (EU) EN 374 derived from it.	ngst other things on the pe of glove and therefore e. ave to satisfy the
Skin	and body protection	:	Choose body protection in relatio concentration and amount of dan the specific work-place.	
Resp	viratory protection	:	Use the indicated respiratory prot exposure limit is exceeded and/or (dust).	
Fi	ilter type	:	P2 filter	
Protective measures :		:	The type of protective equipment to the concentration and amount at the specific workplace.	
Envi	ronmental exposure	contro	bls	
Air		:	No special environmental precau	tions required.
Soil		:		
			The product should not be allowe courses or the soil.	d to enter drains, water
Wate	Pr	:		
			The product should not be allowe courses or the soil.	d to enter drains, water

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical state	:	powder
Colour	:	grey
Odour	:	odourless
Odour Threshold	:	No data available



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9.2

Explosives

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Melting point/range	:	1.185 °C
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	250.000 mg/m3
Flash point	:	Not applicable
Auto-ignition temperature	:	520 °C
Decomposition temperature	:	No data available
рН	:	Not applicable substance/mixture is non-soluble (in water)
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Vapour pressure	:	< 0,001 hPa (20 °C)
Density	:	4,80 g/cm3 (20 °C)
Bulk density	:	400 - 1.400 kg/m3
Relative vapour density	:	No data available
Other information		
<b>–</b>		



: Not explosive



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	zing properties gnition	<ul><li>No data available</li><li>No data available</li></ul>	
Evap	oration rate	: No data available	
Subli	mation point	: No data available	

## **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 : Dust can form an explosive mixture in air.

#### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

#### 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	:	Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder, Dust may cause sore throat and pains in the lungs and chest.
Acute dermal toxicity	:	Remarks: This information is not available.





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	<u>Compo</u>	onents:			
	molybe	denum disulphide:			
	Acute of	oral toxicity	:	LD50 (Rat): > 5.000 mg/kg	
	Acute of	dermal toxicity	:	LD50 (Rat): > 16.000 mg/kg	
	Skin co	orrosion/irritation			
	Produc	<u>st:</u>			
	Remar	ks	:	This information is not available.	
	<u>Compo</u>	onents:			
	molybe	denum disulphide:			
	Assess Result	ment	:	No skin irritation No skin irritation	
	Seriou	s eye damage/eye ir	ritati	on	
	Produc	<u>::</u>			
	Remar	ks	:	Contact with eyes may cause irritation.	
	Compo	onents:			
	molybe	denum disulphide:			
	Assess Result	ment	:	No eye irritation No eye irritation	
	Respir	atory or skin sensiti	satio	n	
	Produc	<u>:t:</u>			
	Remar	ks	:	This information is not available.	
	Compo	onents:			
	molybe	denum disulphide:			
	Assess Result	ment	:	Does not cause skin sensitisation. Does not cause skin sensitisation.	
	Germ o	cell mutagenicity			
	Produc	<u>st:</u>			
		oxicity in vitro	:	Remarks: No data available	
	Genoto	oxicity in vivo	:	Remarks: No data available	





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Components:		
molybdenum disulphide: Germ cell mutagenicity- Assessment	: Animal testing did not show any mut	tagenic effects.
Carcinogenicity		
<u>Product:</u> Remarks	: No data available	
Components:		
<b>molybdenum disulphide:</b> Carcinogenicity - Assessment	: No evidence of carcinogenicity in an	imal studies.
Reproductive toxicity		
<u>Product:</u> Effects on fertility	: Remarks: No data available	
Effects on foetal development	: Remarks: No data available	
STOT - single exposure		
<u>Product:</u> Remarks	: No data available	
Components:		
molybdenum disulphide: Assessment	: The substance or mixture is not clas organ toxicant, single exposure.	sified as specific target
STOT - repeated exposure		
<u>Product:</u> Remarks	: No data available	
Components:		
molybdenum disulphide: Assessment	: The substance or mixture is not clas organ toxicant, repeated exposure.	sified as specific target





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Re	epeated dose toxicity			
<u>Pr</u>	oduct:			
Re	emarks	:	This information is not available.	
As	spiration toxicity			
<u>Pr</u>	oduct:			
Tł	nis information is not avail	able.		
11.2 In	formation on other haza	ards		
Er	ndocrine disrupting pro	pertie	S	
<u>Pr</u>	oduct:			
As	ssessment	:	The substance/mixture does not cont considered to have endocrine disrupt to REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Regu levels of 0.1% or higher.	ting properties according on Delegated regulation
Fu	urther information			
<u>Pr</u>	oduct:			
Re	emarks	:	Prolonged or repeated inhalation may lungs.	y cause damage to the
<u>C</u>	omponents:			
m	olybdenum disulphide:			
Re	emarks	:	Information given is based on data or the toxicology of similar products.	n 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





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T	Toxicity to microorganisms	:	Remarks: No data available	
<u>(</u>	Components:			
r	molybdenum disulphide:			
F	Toxicity to fish	:	LC50 (Pimephales promelas (fathead n Exposure time: 96 h	ninnow)): > 100 mg/l
	Toxicity to daphnia and other aquatic invertebrates	r :	EC50 (Daphnia magna (Water flea)): > Exposure time: 48 h	100 mg/l
	Foxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata mg/l Exposure time: 72 h	(green algae)): > 100

### 12.2 Persistence and degradability

#### Product:

Biodegradability	:	Remarks: No data available
Physico-chemical removability	:	Remarks: No data available

#### 12.3 Bioaccumulative potential

Ρ	ro	du	ıct	:

## 12.4 Mobility in soil

Product:		
Mobility	:	Remarks: No data available
Distribution among environmental 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 very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 12.6 Endocrine disrupting properties

## Product:





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Asse	ssment		The substance/mixture does not c considered to have endocrine disr to REACH Article 57(f) or Commis (EU) 2017/2100 or Commission R levels of 0.1% or higher.	upting properties according ssion Delegated regulation
12.7 Othe	r adverse effects			
Prod	uct:			
	ional ecological nation	:	No information on ecology is avail	able.

# 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 :	unused product
	06 06 03, wastes containing sulphides other than those mentioned in 06 06 02
	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

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good



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14.2 UN p	roper shipping nan	e	
ADR		: Not regulated as a dangerous goo	bd
RID		: Not regulated as a dangerous goo	bd
IMDO	6	: Not regulated as a dangerous goo	bd
ΙΑΤΑ		: Not regulated as a dangerous goo	bd
14.3 Tran	sport hazard class(	es)	
ADR		: Not regulated as a dangerous goo	bd
RID		: Not regulated as a dangerous goo	bd
IMDO	3	: Not regulated as a dangerous goo	bd
ΙΑΤΑ		: Not regulated as a dangerous goo	bd
14.4 Pack	ing group		
ADR		: Not regulated as a dangerous goo	bd
RID		: Not regulated as a dangerous goo	bd
IMDO	3	: Not regulated as a dangerous goo	bd
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous goo	bd
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous goo	bd
14.5 Envi	ronmental hazards		
ADR		: Not regulated as a dangerous goo	od
RID		: Not regulated as a dangerous goo	bd
IMDO	6	: Not regulated as a dangerous goo	bd
-	<b>ial precautions for</b>	user	
14.7 Marit	time transport in bu	Ik according to IMO instruments	
Rema	arks	: Not applicable for product as supp	olied.

## **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)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC)	:	This product does not contain substances of very high concern (Regulation (EC) No





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				1907/2006 (REACH), Article 57).
Regulation (EC) No 1005/2009 on substances that : deplete the ozone layer (EC 1005/2009)			Not applicable	
pollut	lation (EU) 2019/1021 ants (recast) POP)	on persistent organic	:	Not applicable
Parlia	t of dangerous chemi	concerning the export and	:	Not applicable
(Anne	CH - List of substance ex XIV) REACH-Annex XIV)	s subject to authorisation	:	Not applicable
	lation (EU) 2019/1148 sives precursors	3 on the marketing and use of	:	Not applicable
Parlia major	so III: Directive 2012/ <sup>,</sup> ment and of the Cour -accident hazards inv ances.			Not applicable
Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable				
	nical safety assessn nformation is not avai			

## **SECTION 16: Other information**

## Full text of other abbreviations

ES VLA

: Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values





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ES VLA / VLA-ED

: Environmental Daily Limit Value

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 - 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**

Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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