



OKS 100

Version 1.4

Revision Date 08.09.2021

Print Date 08.09.2021

1. Identification of the substance/mixture and of the company/undertaking

Product information

Product name : OKS 100

Use of the Substance/Mixture : solid lubricant

Company : OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
D-82216 Maisach-Gernlinden
Tel.: +49 8142 3051 500
Fax.: +49 8142 3051 599
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Material Compliance Management

National contact :

Emergency telephone number : +7 495 628 1687
+49 8142 3051 517

2. Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS-Labeling

Not a hazardous substance or mixture.

3. Composition/information on ingredients

Chemical nature : Molybdenum disulfide

Hazardous components

Chemical name	CAS-No.	Concentration[%]
molybdenum disulphide	1317-33-5	90 - 100

4. First aid measures

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
Keep patient warm and at rest.



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- 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 without medical advice.
Rinse mouth with water.

Notes to physician

- Symptoms : No information available.
- Risks : None known.
- Treatment : No information available.

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 : Sulphur oxides
Metal oxides
- 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.

6. Accidental release measures

- Personal precautions : Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Use the indicated respiratory protection if the occupational



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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.

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

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).

7. Handling and storage

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 fire and explosion : Avoid dust formation.

Storage

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.
Electrical installations / working materials must comply with the technological safety standards.
Store in accordance with the particular national regulations.
Keep in properly labelled containers.



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8. Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
molybdenum disulphide	1317-33-5	MPC-TWA	1 mg/m3	2011-07-12	RU OEL
molybdenum disulphide	1317-33-5	MPC-STEL	6 mg/m3	2011-07-12	RU OEL
molybdenum disulphide	1317-33-5	MPC-TWA	1 mg/m3	2018-04-23	RU OEL
molybdenum disulphide	1317-33-5	MPC-STEL	6 mg/m3	2018-04-23	RU OEL

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

Respiratory protection : Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
P2 filter

Hand protection : Nitrile rubber
Manufacturer, importer, supplier: Class 1
Break through time: > 10 min
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

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.



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Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

9. Physical and chemical properties

Appearance

Form : powder
Colour : grey
Odour : odourless

Safety data

Flash point : Note: Not applicable
Ignition temperature : 520 °C
Upper explosion limit : Note: No data available
Flammability (solid, gas) : Will not burn
Oxidizing properties : Note: No data available
Auto-ignition temperature : Note: No data available
pH : Note: Not applicable
substance/mixture is non-soluble (in water)
Melting point/range : 1.185 °C
Boiling point/boiling range : Note: No data available
Sublimation point : Note: No data available
Vapour pressure : < 0,001 hPa
at 20 °C
Density : 4,80 g/cm³
at 20 °C
Bulk density : 400 - 1.400 kg/m³
Water solubility : Note: insoluble
Partition coefficient: n-octanol/water : Note: No data available
Solubility in other solvents : Note: No data available



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Viscosity, dynamic : Note: No data available
Viscosity, kinematic : Note: No data available
Relative vapour density : Note: No data available
Evaporation rate : Note: No data available

10. Stability and reactivity

Conditions to avoid : Heat, flames and sparks.
Materials to avoid : No materials to be especially mentioned.
Hazardous decomposition products : No decomposition if stored and applied as directed.
Thermal decomposition : Note: No data available
Hazardous reactions : Dust can form an explosive mixture in air.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity :
Remarks: This information is not available.

Acute dermal toxicity :
Remarks: This information is not available.

Skin corrosion/irritation

Skin irritation : Remarks: This information is not available.

Serious eye damage/eye irritation

Eye irritation : Remarks: Contact with eyes may cause irritation.

Respiratory or skin sensitisation

Sensitisation : Remarks: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Germ cell mutagenicity



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Remarks
molybdenum disulphide : Animal testing did not show any mutagenic effects.

Carcinogenicity

Remarks
molybdenum disulphide : No evidence of carcinogenicity in animal studies.

Target Organ Systemic Toxicant - Single exposure

molybdenum disulphide : Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Target Organ Systemic Toxicant - Repeated exposure

: This information is not available.

Aspiration hazard

Aspiration toxicity : This information is not available.

Further information : Prolonged or repeated inhalation may cause damage to the lungs.

12. Ecological information

Ecotoxicity effects

Toxicity to fish :
Remarks:
No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks:
No data available

Toxicity to algae : Remarks:
No data available

Toxicity to bacteria : Remarks:
No data available

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).



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This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Mobility : Remarks:
No data available

Distribution among environmental compartments : Remarks:
No data available

Biodegradability : Remarks:
No data available

Physico-chemical removability : Remarks:
No data available

Further information on ecology

Additional ecological information : No information on ecology is available.

13. Disposal considerations

Product : 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 the unused product.
Dispose of waste product or used containers according to local regulations.

14. Transport information

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG



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Not dangerous goods

RID

Not dangerous goods

Other information : No special precautions required.

15. Regulatory information

16. Other information

Further information

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