



OKS 480

Version 1.3

Revision Date 28.01.2021

Print Date 28.01.2021

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

Product information

Product name : OKS 480

Use of the Substance/Mixture : Lubricant

Company : 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 : mcm@oks-germany.com
Material Compliance Management

National contact :

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

2. Hazards identification

GHS Classification

: Short-term (acute) aquatic hazard, Category 2
Long-term (chronic) aquatic hazard, Category 2

GHS-Labeling

Symbol(s) :



Hazard statements : H411: Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P391 Collect spillage.

3. Composition/information on ingredients

Chemical nature : Synthetic hydrocarbon oil
Calcium soap
Additive
Zinc oxide



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Hazardous components

Chemical name	CAS-No.	Concentration[%]
Benzenesulfonic acid, C10-16-alkyl derivs. Calcium salt	68584-23-6	1 - 10
Zinc oxide	1314-13-2	1 - 2,5

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 unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- 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.
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.

Notes to physician

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



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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
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. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

- 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 release (dust). Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling

- 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.



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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.

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.
 Store in accordance with the particular national regulations.
 Keep in properly labelled containers.

8. Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Update	Basis
Zinc oxide	1314-13-2	MPC-TWA	0,5 mg/m3	2018-04-23	RU OEL
Zinc oxide	1314-13-2	MPC-STEL	1,5 mg/m3	2018-04-23	RU OEL

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

Respiratory protection : Not required; except in case of aerosol formation.
 Filter type P

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



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- 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.
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

- Physical state : solid
Colour : beige
Odour : hydrocarbon-like

Safety data

- Flash point : > 180 °C
Ignition temperature : Remarks: No data available
Lower explosion limit : 0,9 %(V)
Upper explosion limit : 7 %(V)
Flammability (solid, gas) : Combustible Solids
Oxidizing properties : Note: No data available
Auto-ignition temperature : Note: No data available
pH : Note: Not applicable
Melting point/range : Note: No data available
Boiling point/boiling range : > 280 °C
Sublimation point : Note: No data available
Vapour pressure : Note: No data available
Density : 0,99 g/cm³
at 20 °C
Bulk density : Note: No data available



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Partition coefficient: n-octanol/water	:	Note: No data available
Solubility in other solvents	:	Note: No data available
Viscosity, dynamic	:	Note: No data available
Viscosity, kinematic	:	ca.100 mm ² /s
Relative vapour density	:	Note: No data available
Evaporation rate	:	Note: No data available

10. Stability and reactivity

Conditions to avoid	:	No conditions to be specially mentioned.
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	:	No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Skin irritation	:	Remarks: This information is not available.
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Serious eye damage/eye irritation

Eye irritation	:	Remarks: This information is not available.
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Respiratory or skin sensitisation

Sensitisation	:	Remarks: This information is not available.
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Germ cell mutagenicity



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Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Germ cell mutagenicity

Remarks

Zinc oxide : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Remarks

Zinc oxide : Not classifiable as a human carcinogen.

Teratogenicity

Remarks

Zinc oxide : No toxicity to reproduction
No toxicity to reproduction

Target Organ Systemic Toxicant - Single exposure

Zinc oxide : 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.

Target Organ Systemic Toxicant - Repeated exposure

Zinc oxide : Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Aspiration toxicity : This information is not available.

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

12. Ecological information

Ecotoxicity effects

Toxicity to fish :
Remarks:
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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

Toxicity to algae : Remarks:
No data available

zinc oxide : 1

Toxicity to bacteria : Remarks:
No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
Zinc oxide : 0,04 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
semi-static test
Method: OECD Test Guideline 211

Elimination information (persistence and degradability)

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 : 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

Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic : Toxic to aquatic life with long lasting effects.



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hazard
Zinc oxide

:

Additional ecological
information

: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Product

: 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

ADR

UN number

: 3077

Description of the goods

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S.

(zinc oxide)

Class

: 9

Packing group

: III

Classification Code

: M7

Hazard Identification
Number

: 90

Labels

: 9

Environmentally hazardous

: yes



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IATA

UN number : 3077
Description of the goods : Environmentally hazardous substance, solid, n.o.s.
(zinc oxide)
Class : 9
Packing group : III
Labels : 9
Packing instruction (cargo aircraft) : 956
Packing instruction (passenger aircraft) : 956
Packing instruction (passenger aircraft) : Y956
Environmentally hazardous : yes

IMDG

UN number : 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
SOLID, N.O.S.
(zinc oxide)
Class : 9
Packing group : III
Labels : 9
EmS Number : F-A, S-F
Marine pollutant : yes



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RID

UN number	: 3077
Description of the goods	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)
Class	: 9
Packing group	: III
Classification Code	: M7
Hazard Identification Number	: 90
Labels	: 9
Environmentally hazardous	: yes
Other information	: No special precautions required.

15. Regulatory information

16. Other information

Further information

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