



OKS 480

Version 1.2

Revision Date 2018-05-07

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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
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2. Hazards identification

GHS Classification

: Acute aquatic toxicity, Category 2
Chronic aquatic toxicity, 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.
In case of contact, immediately flush skin with plenty of water.
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
- Specific hazards during firefighting : Fire may cause evolution of: Metal oxides
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. 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.



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Wash hands and face before breaks and immediately after handling the product.
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 | PC-TWA | 3 mg/m3 | 2002-04-08 | GBZ 2.1-2007 |
| Zinc oxide | 1314-13-2 | PC-STEL | 5 mg/m3 | 2002-04-08 | GBZ 2.1-2007 |

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
For prolonged or repeated contact use protective gloves.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard



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EN 374 derived from it.
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 : Tightly fitting safety goggles
- 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: No data available
- Melting point/range : Note: No data available
- Boiling point/boiling range : > 280 °C



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| | |
|--|--------------------------------------|
| Sublimation point | : Note: No data available |
| Vapour pressure | : Note: No data available |
| Density | : 0.99 g/cm ³ at 20 °C |
| Bulk density | : Note: No data available |
| 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 |

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.

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

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.



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12. Ecological information

Ecotoxicity effects

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

- 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 fish (Chronic toxicity)
Zinc oxide : NOEC: ≥ 0.054 mg/l
Exposure time: 32 d
Species: Danio rerio (zebra fish)
flow-through test
Method: OECD Test Guideline 210

- 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



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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

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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.

Contaminated packaging : Empty containers can be landfilled, when in accordance with the local regulations.

14. Transport information

IATA

UN number : 3077

Description of the goods : Environmentally hazardous substance, solid, n.o.s.
(zinc oxide)

Class : 9



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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
Other information : No special precautions required.

15. Regulatory information

Other regulations : Law on the Prevention and Control of Occupational Diseases



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16. Other information

Further information

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