



**OKS 265**

Version 1.4

Revision Date 2018-06-15

Print Date 2018-06-15

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

**Product information**

Product name : OKS 265

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

E-mail address : mcm@oks-germany.com

National contact :


Emergency telephone number : +86 512 8090 3042 (NCEC, 24 hrs)  
+86 532 8388 9090 (NRCC)

**2. Hazards identification**

**GHS Classification**

: Skin irritation, Category 2  
Serious eye damage, Category 1  
Acute aquatic toxicity, Category 3  
Chronic aquatic toxicity, Category 3

**GHS-Labeling**

Symbol(s) : 

Signal word : Danger

Hazard statements : H315: Causes skin irritation.  
H318: Causes serious eye damage.  
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P264 Wash hands thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a



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POISON CENTER/doctor.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.

**3. Composition/information on ingredients**

Chemical nature : lithium soap  
solid lubricant  
Synthetic hydrocarbon oil

**Hazardous components**

Chemical name	CAS-No.	Concentration[%]
calcium dihydroxide	1305-62-0	10 - 20
dizinc pyrophosphate	7446-26-6	2.5 - 10
Zinc oxide	1314-13-2	0.25 - 1

**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 : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
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.  
Get medical attention immediately.

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.



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Never give anything by mouth to an unconscious person.

**Notes to physician**

- Symptoms : Skin contact may provoke the following symptoms:  
Erythema
- Risks : Causes skin irritation.
- Treatment : Treat symptomatically.

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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:  
Carbon oxides  
Halogenated compounds  
Metal oxides  
Oxides of phosphorus  
Sulphur 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.

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**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.



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- 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. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. 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



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**Engineering measures**

Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

- Respiratory protection : Not required; except in case of aerosol formation.  
Filter type A-P
  
- Hand protection : Nitrile rubber  
Manufacturer, importer, supplier: Class 1  
Wear protective gloves.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard 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.

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**9. Physical and chemical properties**

**Appearance**

- Form : paste
- Colour : white
  
- Odour : odourless

**Safety data**

- Flash point : Note: Not applicable
  
- Ignition temperature : Remarks: No data available



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Lower explosion limit	: Note: No data available
Upper explosion limit	: Note: No data available
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: Not applicable
Boiling point/boiling range	: Note: No data available
Sublimation point	: Note: No data available
Vapour pressure	: < 0.001 hPa at 20 °C
Density	: 0.96 g/cm <sup>3</sup> at 20 °C
Bulk density	: Note: No data available
Water solubility	: Note: immiscible
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	: Note: Not applicable
Relative vapour density	: Note: No data available
Evaporation rate	: Note: No data available

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**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	: >280 °C danger of forming toxic fluorine-containing pyrolysis products.



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Thermal decomposition : Note: No data available

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**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

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

Acute dermal toxicity  
calcium dihydroxide : LD50: > 2,500 mg/kg  
Species: Rabbit  
Method: OECD Test Guideline 402

Zinc oxide : LD50: > 2,000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 402

**Skin corrosion/irritation**

Skin irritation : Remarks: Irritating to skin.

**Serious eye damage/eye irritation**

Eye irritation : Remarks: Risk of serious damage to eyes.

**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.



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**Teratogenicity**

Remarks

Zinc oxide : No toxicity to reproduction  
No toxicity to reproduction

**Target Organ Systemic Toxicant - Single exposure**

calcium dihydroxide : Remarks: May cause respiratory irritation.

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 : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

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**12. Ecological information**

**Ecotoxicity effects**

Toxicity to fish :  
Remarks:  
Harmful 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





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zinc oxide : 1

Toxicity to bacteria : Remarks:  
No data available

Toxicity to fish (Chronic toxicity)  
Zinc oxide : NOEC:  $\geq 0.054$  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

Distribution among environmental compartments : Remarks:  
No data available

Biodegradability : Remarks:  
No data available

Physico-chemical removability : Remarks:  
No data available

**Further information on ecology**

Acute aquatic toxicity calcium dihydroxide : This product has no known ecotoxicological effects.

dizinc pyrophosphate : Toxic to aquatic life.



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- Chronic aquatic toxicity  
calcium dihydroxide : This product has no known ecotoxicological effects.
- dizinc pyrophosphate : Toxic to aquatic life with long lasting effects.
- calcium dihydroxide :
- dizinc pyrophosphate :
- calcium dihydroxide :
- dizinc pyrophosphate :
- calcium dihydroxide :
- dizinc pyrophosphate :
- Results of PBT assessment  
dizinc pyrophosphate : This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).
- Zinc oxide :
- Additional ecological information : Harmful to aquatic life with long lasting effects.
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**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.
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**14. Transport information**

**ADR**

Not dangerous goods



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**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

Other information : No special precautions required.

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**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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