



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

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 Spezialechmierstoffe 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 : +7 495 628 1687
+49 8142 3051 517

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



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

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
Ethylene, tetrafluoro-, polymer	9002-84-0	1 - 10
thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	41484-35-9	1 - 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.



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

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

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.

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



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

(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. 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
calcium dihydroxide	1305-62-0	MPC- STEL	2 mg/m ³	2011-07-12	RU OEL



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

Ethylene, tetrafluoro-, polymer	9002-84-0	MPC-TWA	10 mg/m3	2011-07-12	RU OEL
thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	41484-35-9	MPC-STEL	10 mg/m3	2011-07-12	RU OEL
Zinc oxide	1314-13-2	MPC-TWA	0,5 mg/m3	2011-07-12	RU OEL
Zinc oxide	1314-13-2	MPC-STEL	1,5 mg/m3	2011-07-12	RU OEL

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.



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

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
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/cm³
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



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

Viscosity, kinematic : Note: Not applicable
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 : >280 °C danger of forming toxic fluorine-containing pyrolysis products.
Thermal decomposition : Note: No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity
calcium dihydroxide : LD50: > 2.000 mg/kg
Species: Rat
Method: OECD Test Guideline 425

dizinc pyrophosphate : LD50: > 2.000 mg/kg
Species: Rat

Ethylene, tetrafluoro-,
polymer : LD50: > 5.000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

thiodiethylene bis[3-(3,5-di-
tert-butyl-4-
hydroxyphenyl)propionate] : LD50: > 5.000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Zinc oxide : LD50: > 5.000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

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

Acute dermal toxicity
calcium dihydroxide : LD50: > 2.500 mg/kg



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

Species: Rabbit
Method: OECD Test Guideline 402

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] : LD50: > 2.000 mg/kg
Species: Rat
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

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] : Animal testing did not show any mutagenic effects.
Zinc oxide : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Remarks
Ethylene, tetrafluoro-, polymer : Not classifiable as a human carcinogen.
thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] : Animal testing did not show any carcinogenic effects.
Zinc oxide : Not classifiable as a human carcinogen.

Teratogenicity
thiodiethylene bis[3-(3,5-di- : Species: Rat



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

tert-butyl-4-hydroxyphenyl)propionate]
Teratogenicity

Application Route: Oral

Remarks

Teratogenicity

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]

: Animal testing did not show any effects on foetal development.
No toxicity to reproduction

Zinc oxide

: No toxicity to reproduction
No toxicity to reproduction

Target Organ Systemic Toxicant - Single exposure

calcium dihydroxide

: Remarks: May cause respiratory irritation.

Ethylene, tetrafluoro-, polymer

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

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]

: Remarks: The substance or mixture is not classified as specific target organ 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

Ethylene, tetrafluoro-, polymer

: Remarks: The substance or mixture is not classified as specific target organ 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.



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

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
- 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)
thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] : NOEC: > 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
- 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).



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

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.

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] : This product has no known ecotoxicological effects.

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

dizinc pyrophosphate : Toxic to aquatic life with long lasting effects.

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] : This product has no known ecotoxicological effects.

calcium dihydroxide :

dizinc pyrophosphate :

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] :

calcium dihydroxide :

dizinc pyrophosphate :

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] :



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

calcium dihydroxide	:	
dizinc pyrophosphate	:	
thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	:	
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).
Ethylene, tetrafluoro-, polymer	:	Non-classified vPvB substance, Non-classified PBT substance
thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]	:	Non-classified PBT substance, Non-classified vPvB substance
Zinc oxide	:	
Additional ecological information	:	Harmful 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

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG



OKS 265

Version 1.4

Revision Date 15.06.2018

Print Date 15.06.2018

Not dangerous goods

Other information : No special precautions required.

15. Regulatory information

16. Other information

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet applies only to products originally packaged and labelled by OKS Spezialschmierstoffe. The information contained therein is protected by copyright and must not be reproduced or amended without the express written approval of OKS Spezialschmierstoffe. This document may be passed on only to the extent required by law. Any dissemination of our safety datasheets (e.g. as a document for download from the Internet) beyond this legally required extent is not permitted without express written consent. OKS Spezialschmierstoffe provides its customers with amended safety datasheets as prescribed by law. The customer is responsible for passing on safety datasheets and any amendments contained therein to its own customers, employees and other users of the product. OKS Spezialschmierstoffe provides no guarantee that safety datasheets received by users from third parties are up-to-date. All information and instructions in this safety datasheets were compiled to the best of our knowledge and are based on the information available to us. The data provided are intended to describe the product in relation to the required safety measures; they are neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and do not justify any contractual legal relationships.