

## OKS 270

Version 2.1

Revision Date 04.07.2019

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

#### Product information

Product name : OKS 270

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 : +7 495 628 1687  
+49 8142 3051 517

### 2. Hazards identification

#### GHS Classification

: Skin irritation, Category 3  
Specific target organ toxicity - repeated exposure, Category 2, Oral  
Short-term (acute) aquatic hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 2

#### GHS-Labeling

Symbol(s) : 

Signal word : Warning

Hazard statements : H316: Causes mild skin irritation.  
H373: May cause damage to organs through prolonged or repeated exposure if swallowed.  
H400: Very toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P314 Get medical advice/ attention if you feel unwell.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P391 Collect spillage.



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### 3. Composition/information on ingredients

Chemical nature : Mineral oil.  
PTFE  
solid lubricant  
lithium soap

#### Hazardous components

Chemical name	CAS-No.	Concentration[%]
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	30 - 50
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	20 - 30
Ethylene, tetrafluoro-, polymer	9002-84-0	1 - 10
Amines, N-tallow alkyltrimethylenedi-, oleates	61791-53-5	2,5 - 10
Zinc oxide	1314-13-2	1 - 2,5
calcium distearate	1592-23-0	1 - 10
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts		0,1 - 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.  
If eye irritation persists, consult a specialist.



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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:  
Carbon oxides  
Halogenated compounds  
Metal oxides  
Nitrogen oxides (NOx)  
Oxides of phosphorus  
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.

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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). Do not breathe vapours, aerosols. 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
Ethylene, tetrafluoro-, polymer	9002-84-0	MPC-TWA	10 mg/m3	2018-04-23	RU OEL
Zinc oxide	1314-13-2	MPC-TWA	0,5 mg/m3	2018-04-23	RU OEL
Zinc oxide	1314-13-2	MPC-	1,5 mg/m3	2018-04-23	RU OEL



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		STEL			
calcium distearate	1592-23-0	MPC-STEL	10 mg/m3	2018-04-23	RU OEL

**Engineering measures**

none

**Personal protective equipment**

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

Hand protection : Fluorinated rubber  
Manufacturer, importer, supplier: Class 1  
Wear protective gloves.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 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.

**9. Physical and chemical properties**

**Appearance**

Form : paste  
Colour : beige  
Odour : hydrocarbon-like

**Safety data**



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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: not auto-flammable
pH	: Note: Not applicable
Drop point	: > 190 °C at 1.013,00 hPa
Boiling point/boiling range	: Note: No data available
Sublimation point	: Note: No data available
Vapour pressure	: < 0,01 hPa at 20 °C
Density	: 1,15 g/cm <sup>3</sup> at 20 °C
Bulk density	: Note: No data available
Water solubility	: Note: insoluble
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

### 10. Stability and reactivity

Conditions to avoid	: No conditions to be specially mentioned.
Materials to avoid	: No materials to be especially mentioned.



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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.

**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

Amines, N-tallow alkyltrimethylenedi-, oleates : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Zinc oxide : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Carcinogenicity**

Remarks  
Distillates (petroleum), hydrotreated heavy paraffinic : Not classifiable as a human carcinogen.  
Distillates (petroleum), hydrotreated heavy paraffinic : Not classifiable as a human carcinogen.  
Ethylene, tetrafluoro-, : Not classifiable as a human carcinogen.



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polymer  
Amines, N-tallow : No evidence of carcinogenicity in animal studies.  
alkyltrimethylenedi-, oleates  
Zinc oxide : Not classifiable as a human carcinogen.

**Teratogenicity**

Remarks

**Teratogenicity**

**Teratogenicity**

**Teratogenicity**

Distillates (petroleum), : No toxicity to reproduction  
hydrotreated heavy paraffinic  
Amines, N-tallow : No toxicity to reproduction  
alkyltrimethylenedi-, oleates No toxicity to reproduction  
  
Zinc oxide : No toxicity to reproduction  
No toxicity to reproduction  
  
Benzenesulfonic acid, di- : No toxicity to reproduction  
C10-14-alkyl derivs., calcium No toxicity to reproduction  
salts

**Target Organ Systemic Toxicant - Single exposure**

Ethylene, tetrafluoro-, : Remarks: The substance or mixture is not classified as  
polymer specific target organ toxicant, single exposure.  
  
Amines, N-tallow : Remarks: The substance or mixture is not classified as  
alkyltrimethylenedi-, oleates 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-, : Remarks: The substance or mixture is not classified as  
polymer specific target organ toxicant, repeated exposure.  
  
Amines, N-tallow : Exposure routes: Ingestion  
alkyltrimethylenedi-, oleates Remarks: May cause damage to organs through prolonged or  
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.





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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:  
Very toxic to aquatic organisms.

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

Toxicity to algae : Remarks:  
No data available

Amines, N-tallow : 10  
alkyltrimethylenedi-, oleates : 1  
zinc oxide

Toxicity to bacteria : Remarks:  
No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)  
Distillates (petroleum), hydrotreated heavy paraffinic : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
semi-static test  
Method: OECD Test Guideline 211

Amines, N-tallow : EC10: > 0,1 - 1 mg/l  
alkyltrimethylenedi-, oleates : Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Reproduction Test  
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:



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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**

Short-term (acute) aquatic hazard  
Amines, N-tallow alkyltrimethylenedi-, oleates : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard  
Amines, N-tallow alkyltrimethylenedi-, oleates : Very toxic to aquatic life with long lasting effects.  
Amines, N-tallow alkyltrimethylenedi-, oleates :  
Amines, N-tallow alkyltrimethylenedi-, oleates :  
Amines, N-tallow alkyltrimethylenedi-, oleates :  
Amines, N-tallow alkyltrimethylenedi-, oleates :

Results of PBT assessment  
Distillates (petroleum), hydrotreated heavy paraffinic : Non-classified vPvB substance, Non-classified PBT substance  
Ethylene, tetrafluoro-, polymer : Non-classified vPvB substance, Non-classified PBT substance  
Amines, N-tallow : Non-classified PBT substance, Non-classified vPvB substance  
alkyltrimethylenedi-, oleates :  
Zinc oxide :

Additional ecological information : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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**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.

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**14. Transport information**

**ADR**

- UN number : 3077
- Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
SOLID, N.O.S.  
(fatty amine derivative)
- Class : 9
- Packing group : III
- Classification Code : M7
- Hazard Identification Number : 90
- Labels : 9
- Environmentally hazardous : yes

**IATA**

- UN number : 3077
- Description of the goods : Environmentally hazardous substance, solid, n.o.s.



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(fatty amine derivative)

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.

(fatty amine derivative)

Class : 9  
Packing group : III  
Labels : 9  
EmS Number : F-A, S-F  
Marine pollutant : yes  
Other information : No special precautions required.



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### 15. Regulatory information

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### 16. Other information

#### Further information

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