



OKS 270

Version 2.0

Revision Date 10.10.2018

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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 Spezienschmierstoffe 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
Acute aquatic toxicity, Category 1
Chronic aquatic toxicity, 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	10 - 20
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.



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- 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.

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.
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.
- 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.



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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/m ³	2011-07-12	RU OEL
Zinc oxide	1314-13-2	MPC-TWA	0,5 mg/m ³	2011-07-12	RU OEL
Zinc oxide	1314-13-2	MPC-STEL	1,5 mg/m ³	2011-07-12	RU OEL
calcium distearate	1592-23-0	MPC-STEL	10 mg/m ³	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 : Fluorinated 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



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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

Flash point : 213 °C
Ignition temperature : Remarks: No data available
Lower explosion limit : Note: No data available
Upper explosion limit : Note: No data available
Flammability (solid, gas) : No data available
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 : Note: No data available
Sublimation point : Note: No data available
Vapour pressure : < 1.100,00 hPa
at 20 °C
Density : 1,15 g/cm³
at 20 °C
Bulk density : Note: No data available
Water solubility : Note: immiscible
Partition coefficient: n-octanol/water : Note: No data available



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Solubility in other solvents	: Note: No data available
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: No data available
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.
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Respiratory or skin sensitisation

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

Genotoxicity in vitro	: Remarks: No data available
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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-, polymer : Not classifiable as a human carcinogen.

Amines, N-tallow alkyltrimethylenedi-, oleates : No evidence of carcinogenicity in animal studies.

Zinc oxide : Not classifiable as a human carcinogen.

Teratogenicity

Remarks

Teratogenicity

Teratogenicity

Teratogenicity

Distillates (petroleum), hydrotreated heavy paraffinic : No toxicity to reproduction

Amines, N-tallow alkyltrimethylenedi-, oleates : No toxicity to reproduction

No toxicity to reproduction

Zinc oxide : No toxicity to reproduction

No toxicity to reproduction

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts : No toxicity to reproduction

No toxicity to reproduction

Target Organ Systemic Toxicant - Single exposure

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

Amines, N-tallow alkyltrimethylenedi-, oleates : Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.



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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.

Amines, N-tallow alkyltrimethylenedi-, oleates : Exposure routes: Ingestion
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.

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 alkyltrimethylenedi-, oleates : 10
zinc oxide : 1

Toxicity to bacteria : Remarks:



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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)

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
alkyltrimethylenedi-, oleates : EC10: $> 0,1 - 1$ mg/l
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:
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 : Remarks:



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removability No data available

Further information on ecology

Acute aquatic toxicity

Amines, N-tallow alkyltrimethylenedi-, oleates : Very toxic to aquatic life.

Chronic aquatic toxicity

Amines, N-tallow alkyltrimethylenedi-, oleates : Very toxic to aquatic life with long lasting effects.

Amines, N-tallow alkyltrimethylenedi-, oleates :

Amines, N-tallow alkyltrimethylenedi-, oleates :

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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 alkyltrimethylenedi-, oleates : Non-classified PBT substance, Non-classified vPvB substance

Zinc oxide :

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

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



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ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

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.

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