



OKS 30

Version 2.3

Revision Date 19.03.2018

Print Date 20.03.2018

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

Product information

Product name : OKS 30

Use of the Substance/Mixture : Lubricant

Company : OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
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2. Hazards identification

GHS Classification

: Skin irritation, Category 3
Acute aquatic toxicity, Category 3
Chronic aquatic toxicity, Category 3

GHS-Labeling

Signal word : Warning

Hazard statements : H316: Causes mild skin irritation.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P332 + P313 If skin irritation occurs: Get medical advice/
attention.

3. Composition/information on ingredients

Chemical nature : Additive



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Hazardous components

Chemical name	CAS-No.	Concentration[%]
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	10 - 20
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	2,5 - 10

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.

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.
Rinse mouth with water.
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
Metal oxides
Nitrogen oxides (NOx)
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 personal protective equipment. Ensure adequate ventilation. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).



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7. Handling and storage

Handling

Advice on safe handling : Do not breathe vapours or spray mist.
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.
Do not re-use empty containers.
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
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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



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- 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 : Safety glasses with side-shields conforming to EN166
- 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 : liquid
- Colour : green
- Odour : characteristic

Safety data

- Flash point : 184 °C
Method: ISO 2592
- Ignition temperature : Remarks: No data available
- Lower explosion limit : Note: No data available
- Upper explosion limit : Note: No data available
- Flammability (solid, gas) : Not applicable
- Oxidizing properties : Note: No data available
- Auto-ignition temperature : Note: No data available



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pH	: Note: Not applicable
Melting point/range	: Note: No data available
Boiling point/boiling range	: 224 °C at 1.013,00 hPa
Sublimation point	: Note: No data available
Vapour pressure	: 26,50 hPa at 20 °C
Density	: 1,00 g/cm ³ 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	: 115,6 mm ² /s at 40 °C
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 :



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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
Distillates (petroleum), hydrotreated heavy naphthenic : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity

Remarks
Distillates (petroleum), hydrotreated heavy naphthenic : Not classifiable as a human carcinogen.

Teratogenicity

Remarks
Teratogenicity
Distillates (petroleum), hydrotreated heavy naphthenic : No toxicity to reproduction
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates : No toxicity to reproduction

Target Organ Systemic Toxicant - Single exposure

Distillates (petroleum), hydrotreated heavy : Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.



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naphthenic Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates : 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

Distillates (petroleum), hydrotreated heavy naphthenic Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates : Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Distillates (petroleum), hydrotreated heavy naphthenic Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates : 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: 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

Toxicity to bacteria : Remarks: No data available

Toxicity to fish (Chronic toxicity) Distillates (petroleum), hydrotreated heavy : NOELR: >= 1.000 mg/l Exposure time: 28 d



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naphthenic Species: Oncorhynchus mykiss (rainbow trout)
Remarks:
The value is calculated

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
Distillates (petroleum), hydrotreated heavy naphthenic : NOELR: 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Reproduction 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
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates : Toxic to aquatic life.

Chronic aquatic toxicity
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates : Toxic to aquatic life with long lasting effects.
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates :
Amines, C11-14-branched :



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alkyl, monohexyl and dihexyl phosphates
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates

Results of PBT assessment
Distillates (petroleum), hydrotreated heavy naphthenic
Additional ecological information

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

: 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

Not dangerous goods

Other information : No special precautions required.



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15. Regulatory information

16. Other information

Further information

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