



OKS 600

Version 1.4

Revision Date 01.02.2019

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

Product information

Product name : OKS 600

Use of the Substance/Mixture : Lubricants and lubricant additives

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

GHS Classification

: Flammable liquids, Category 4
Skin irritation, Category 3
Aspiration hazard, Category 1

GHS-Labeling

Symbol(s) :



Signal word :

Danger

Hazard statements :

H227: Combustible liquid.
H304: May be fatal if swallowed and enters airways.
H316: Causes mild skin irritation.

Precautionary statements :

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Storage:



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P403 + P235 Store in a well-ventilated place. Keep cool.

3. Composition/information on ingredients

Chemical nature : Mineral oil.
solvent (hydrocarbons)

Hazardous components

| Chemical name | CAS-No. | Concentration[%] |
|---|------------|------------------|
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | 70 - 90 |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | 1 - 10 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 | 1 - 10 |
| Sulfonic acids, petroleum, calcium salts | 61789-86-4 | 1 - 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.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Seek medical advice.
- If swallowed : Move the victim to fresh air.



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If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
Do NOT induce vomiting.
Obtain medical attention.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.
Aspiration hazard if swallowed - can enter lungs and cause damage.

Notes to physician

- Symptoms : Skin contact may provoke the following symptoms:
Erythema

Aspiration may cause pulmonary oedema and pneumonitis.
- Risks : Can be absorbed through skin.
Risk of product entering the lungs on vomiting after ingestion.
Health injuries may be delayed.
- 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
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.
Cool containers/tanks with water spray.



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6. Accidental release measures

- Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Try to prevent the material from entering drains or water courses.
Prevent further leakage or spillage if safe to do so.
Local authorities should be advised if significant spillages cannot be contained.
- 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).
Non-sparking tools should be used.

7. Handling and storage

Handling

- Advice on safe handling : Use only in an area containing explosion proof equipment.
Do not use in areas without adequate ventilation.
Do not breathe vapours or spray mist.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin and eyes.
For personal protection see section 8.
Keep away from fire, sparks and heated surfaces.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Wash hands and face before breaks and immediately after handling the product.
Ensure all equipment is electrically grounded before beginning transfer operations.
Do not get in eyes or mouth or on skin.
Do not get on skin or clothing.
Do not ingest.



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Do not use sparking tools.
 Do not enter areas where used or stored until adequately ventilated.
 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.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

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.
 Do not store together with oxidizing and self-igniting products.
 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 |
|------------|---------|-------|--------------------|--------|-------|
|------------|---------|-------|--------------------|--------|-------|

Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.
 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 : butyl-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



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- 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

- Physical state : liquid
Colour : brown
- Odour : hydrocarbon-like

Safety data

- Flash point : 64 °C
Method: Pensky-Martens
- 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: not auto-flammable
- pH : Note: Not applicable
- Melting point/range : Note: No data available
- Boiling point/boiling range : 150 °C
at 1.013,00 hPa
- Sublimation point : Note: No data available



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| | |
|--|--------------------------------------|
| Vapour pressure | : 53,20 hPa at 20 °C |
| Density | : 0,81 g/cm ³ 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 | : 3,1 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 | : Heat, flames and sparks. |
| Materials to avoid | : Oxidizing agents |
| 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: Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible |



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blistering.

:
Symptoms: Redness, Local irritation, Skin disorders

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

Carcinogenicity

Distillates (petroleum),
solvent-dewaxed heavy
paraffinic : Species: Mouse
Print Date: OECD Test Guideline 451

Carcinogenicity

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

Teratogenicity

Remarks
Teratogenicity
Naphtha (petroleum),
hydrotreated heavy : No toxicity to reproduction
No toxicity to reproduction

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

Target Organ Systemic Toxicant - Single exposure



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Naphtha (petroleum), hydrotreated heavy : 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

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

Aspiration hazard

Aspiration toxicity : May be fatal if swallowed and enters airways.

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:
No data available

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 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

Distillates (petroleum), : NOEC: 10 mg/l



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solvent-dewaxed heavy paraffinic

Exposure time: 21 d
Species: Daphnia magna (Water flea)

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

Results of PBT assessment
Naphtha (petroleum), hydrotreated heavy Distillates (petroleum), hydrotreated heavy paraffinic : Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information : Non-classified vPvB substance, Non-classified PBT substance
Additional ecological information : No information on ecology is available.

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

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

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