



OKS 352

Version 1.3

Revision Date 2018-01-17

Print Date 2018-01-17

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

Product information

Product name : OKS 352

Use of the
Substance/Mixture : Lubricant

Company : OKS Spezialschmierstoffe GmbH
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Emergency telephone
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2. Hazards identification

GHS Classification

: Reproductive toxicity, Category 2
Acute aquatic toxicity, Category 3
Chronic aquatic toxicity, Category 3

GHS-Labeling

Symbol(s)



Signal word

: Warning

Hazard statements

: H361: Suspected of damaging fertility or the unborn child.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Storage:
P405 Store locked up.



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3. Composition/information on ingredients

Chemical nature : ester oil
Synthetic hydrocarbon oil

Hazardous components

Chemical name	CAS-No.	Concentration[%]
tris(methylphenyl) phosphate	1330-78-5	0.25 - 1

4. First aid measures

If inhaled : Obtain medical attention.
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 off immediately with plenty of water.

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.
Obtain medical attention.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.



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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 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
tris(methylph enyl) phosphate	1330-78-5	PC-TWA	0.3 mg/m ³	2007-04-27	GBZ 2.1-2007

Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment



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- 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 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 : yellow
Odour : characteristic

Safety data

- Flash point : 264 °C
Method: DIN 51758
- 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



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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	: 245 °C at 1,013.00 hPa
Sublimation point	: Note: No data available
Vapour pressure	: < 0.01 hPa at 20 °C
Density	: 0.89 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	: 260 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



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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

Teratogenicity

Remarks
tris(methylphenyl) phosphate : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

Target Organ Systemic Toxicant - Single exposure

tris(methylphenyl) phosphate : 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

tris(methylphenyl) phosphate : Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



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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

M-Factor
tris(methylphenyl) phosphate : 1

Toxicity to bacteria : Remarks:
No data available

Toxicity to fish (Chronic toxicity)
tris(methylphenyl) phosphate : NOEC: 0.01 mg/l
Exposure time: 28 d
Species: *Jordanella floridae* (flagfish)
semi-static test

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



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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
tris(methylphenyl) phosphate : Non-classified PBT substance, Non-classified vPvB substance

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

Not dangerous goods



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Other information : No special precautions required.

15. Regulatory information

Other regulations : Law on the Prevention and Control of Occupational Diseases

16. Other information

Further information

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