according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

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

1.1 Product identifier

Product name : OKS 404

Material number : 1103350000

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Lubricant

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

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

Responsible/issuing person

National contact :

1.4 Emergency telephone number

+49 8142 3051 517

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

!>

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P264 Wash hands thoroughly after handling.

according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mineral oil.

Synthetic hydrocarbon oil

Thickening agent

Additive

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Poly(1,2-dihydro-2,2,4-trimethylquinoline)	26780-96-1	Aquatic Chronic 3; H412	>= 2,5 - < 10
zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate)	4259-15-8 224-235-5 / 01-2119493635-27-XXXX	Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 1 - < 2,5

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of 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.



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

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.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Fire may cause evolution of:

Carbon oxides Metal oxides

Nitrogen oxides (NOx) Oxides of phosphorus

Sulphur oxides

5.3 Advice for firefighters

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

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.

6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Clean up promptly by sweeping or vacuum.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including any incompatibilities

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.

German storage class : 11 Combustible Solids

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

zinc bis[O,O-bis(2- : End Use: Workers

ethylhexyl)] Exposure routes: Inhalation

bis(dithiophosphate) Potential health effects: Long-term systemic effects

Value: 6,6 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 9,6 mg/m3

PNEC

zinc bis[O,O-bis(2-

ethylhexyl)]

bis(dithiophosphate)

: Fresh water

Value: 4 μg/l

Marine water Value: 4,6 µg/l

Sewage treatment plant

Value: 3,8 mg/l

Fresh water sediment Value: 0,322 mg/l

Marine sediment Value: 0,032 mg/l

Soil

Value: 0,062 mg/l

Intermittent use/release

Value: 44 µg/l

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection : Not required; except in case of aerosol formation.

Filter type P

according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

Hand protection : For prolonged or repeated contact use 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.
In case of contact through splashing:

: Nitrile rubber

Protective index Class 1

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.

Environmental exposure controls

General advice : Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

: No data available

: No data available

9. Physical and chemical properties

Odour Threshold

Boiling point/boiling range

9.1 Information on basic physical and chemical properties

Form : paste

Colour : brown

Odour : characteristic

pH : No data available

Melting point/range : $> 260 \, ^{\circ}\text{C}$, 1.013 hPa

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Lower explosion limit : No data available

Upper explosion limit : No data available



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

Vapour pressure : < 0,001 hPa, 20 °C Relative vapour density : No data available Density : 0,93 g/cm3, 20 °C

Water solubility : immiscible

Solubility in other solvents : No data available Partition coefficient: n- : No data available octanol/water

Auto-ignition temperature : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Explosive properties : Not explosive
Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available Bulk density : No data available

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects

Product



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

Acute inhalation toxicity : This information is not available.

Acute dermal toxicity : This information is not available.

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye

irritation

: Irritating to eyes.

Respiratory or skin

sensitisation

This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : No data available
Genotoxicity in vivo : No data available
Carcinogenicity : No data available
Reproductive toxicity : No data available
Teratogenicity : No data available

Repeated dose toxicity : This information is not available.

Aspiration toxicity : This information is not available.

Further information : Information given is based on data on the components and

the toxicology of similar products.

Components:

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) :

Acute oral toxicity : LD50: 3.100 mg/kg, Rat, OECD Test Guideline 401

Acute dermal toxicity : LD50: > 5.000 mg/kg, Rabbit, OECD Test Guideline 402

Skin corrosion/irritation : Rabbit, Result: No skin irritation, Classification: No skin

irritation, OECD Test Guideline 404, GLP: yes

Serious eye damage/eye

irritation

: Rabbit, Result: Risk of serious damage to eyes.,

Classification: Risk of serious damage to eyes., OECD Test

Guideline 405, GLP: yes

Severe eye irritation, May irritate eyes., Risk of serious

damage to eyes.

Respiratory or skin

sensitisation

: Maximisation Test, Guinea pig, Result: Does not cause skin

sensitisation., OECD Test Guideline 406, GLP: yes

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish

No data available

Toxicity to daphnia and other

aquatic invertebrates

140 data available

Toxicity to algae

No data available



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

No data available

Toxicity to bacteria

No data available

Components:

Poly(1,2-dihydro-2,2,4-trimethylquinoline):

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) :

Toxicity to fish : LC50: 4,4 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout),

semi-static test, OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 75 mg/l, 48 h, Daphnia magna (Water flea),

Immobilization, OECD Test Guideline 202

Toxicity to algae : ErC50: 240 mg/l, 72 h, Desmodesmus subspicatus (green

algae), Growth inhibition, OECD Test Guideline 201, GLP:

yes

Toxicity to bacteria : EC50: 380 mg/l, 16 h, Pseudomonas putida, GLP: yes

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC50: > 0,53 mg/l, 21 d, Daphnia magna (Water flea),

OECD Test Guideline 211,

Information given is based on data obtained from similar

substances.

12.2 Persistence and degradability

Product:

Biodegradability

No data available : No data available

Physico-chemical removability **Components:**

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) :

Biodegradability : < 5 %, Result: Not rapidly biodegradable, OECD 301 D

12.3 Bioaccumulative potential

Product:

Bioaccumulation

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).

12.4 Mobility in soil

Product:



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

Mobility : No data available Distribution among : No data available

environmental compartments

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) :

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

12.6 Other adverse effects

Product:

Additional ecological

information

: No information on ecology is available.

13. Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

: Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Empty containers can be landfilled, when in accordance with

the local regulations.

14. Transport information

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class ADR



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

No special precautions required.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not applicable for product as supplied.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation

(Article 59).

: This product does not contain substances of very high

concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard

Legislation

: 96/82/EC Update:

Not applicable

: 2012/18/EU Update:

Not applicable

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and

control)

: Not applicable

Water contaminating class

(Germany)

: WGK 2: water endangering



according to Regulation (EC) No. 1907/2006 - DE



OKS 404

Version 3.2 Revision Date 02.08.2017 Print Date 02.08.2017

TA Luft List (Germany) : Total dust: Not applicable

Inorganic substances in powdered form: Not applicable Inorganic substances in vapour or gaseous form: Not

applicable

Organic Substances: Portion other substances: 95 %

Carcinogenic substances: Not applicable

Mutagenic: Not applicable

Toxic to reproduction: Not applicable

15.2 Chemical safety assessment

This information is not available.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H318	Causes serious eye damage.
H319	Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further information

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