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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

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

1.1 Product identifier

Product name : OKS 416

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

Use of the : Grease

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)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

EUH210 Safety data sheet available on request.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

Chemical nature : ester oil

Mineral oil. lithium soap

Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2,5-bis(tert- dodecyldithio)-1,3,4- thiadiazole	59656-20-1 261-844-5	R52/53	Aquatic Chronic 3; H412	>= 1 - < 2,5

For the full text of the R-phrases mentioned in this Section, see Section 16. 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.

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.

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing : High volume water jet

media

5.2 Special hazards arising from the substance or mixture

Specific hazards during : Fire may cause evolution of:

firefighting Carbon oxides Metal oxides

Nitrogen oxides (NOx)

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

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

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

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

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

substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

2,5-bis(tert-dodecyldithio)-

1,3,4-thiadiazole

: End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 4,408 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

Value: 6,25 mg/kg bw/day

PNEC

2,5-bis(tert-dodecyldithio)-

1,3,4-thiadiazole

: Fresh water

Value: 0,041 mg/l

Marine water

Value: 0,0041 mg/l

Intermittent use/release

Value: 0,41 mg/l

Microbiological Activity in Sewage Treatment Systems

Value: 8000 mg/l

Fresh water sediment Value: 380,62 mg/kg

Marine sediment Value: 38,06 mg/kg

Soil

Value: 308,98 mg/kg

Oral

Value: 6,67 mg/kg

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

For prolonged or repeated contact use protective gloves. Hand protection

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

: Wash face, hands and any exposed skin thoroughly after Hygiene measures

handling.

Protective measures : The type of protective equipment must be selected according

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : paste

Colour : yellow

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/range : No data available Boiling point/boiling range : No data available

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

Vapour pressure : < 0,001 hPa, 20 °C

Density : 0,90 g/cm3, 20 °C

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

Relative vapour density

octanol/water

: No data available

No data available

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

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

9.2 Other information

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

10. Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

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

Acute inhalation toxicity : This information is not available.

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye : This information is not available.

irritation

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.

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

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

the toxicology of similar products.

Components:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Acute oral toxicity : LD50: > 5.000 mg/kg, Rat, OECD Test Guideline 401

Acute dermal toxicity : LD50: > 2.000 mg/kg, Rat, OECD Test Guideline 402

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

irritation, OECD Test Guideline 404

Serious eye damage/eye

irritation

: Rabbit, Result: No eye irritation, Classification: No eye

irritation, OECD Test Guideline 405

Respiratory or skin

sensitisation

: Buehler Test, Guinea pig, Result: Did not cause sensitisation

on laboratory animals., Classification: Did not cause

sensitisation on laboratory animals., OECD Test Guideline

406

Germ cell mutagenicity

Assessment : Animal testing did not show any mutagenic effects.

STOT - single exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, single exposure.

STOT - repeated exposure : Assessment: The substance or mixture is not classified as

specific target organ toxicant, repeated exposure.

12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish

No data available

Toxicity to daphnia and other

aquatic invertebrates

No data available

Toxicity to algae :

Toxicity to bacteria

No data available

No data available

Components:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Toxicity to fish : LC50: > 1.000 mg/l, 96 h, Pimephales promelas (fathead

minnow)

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 41 mg/l, 48 h, Daphnia magna (Water flea), OECD Test

Guideline 202

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

Toxicity to algae : EC50: > 100 mg/l, 72 h, Pseudokirchneriella subcapitata

(green algae), Growth inhibition, OECD Test Guideline 201

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

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

12.2 Persistence and degradability

Product:

Biodegradability

No data available : No data available

Physico-chemical

removability Components:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

Biodegradability : Primary biodegradation, 0 %, Result: Not readily

biodegradable., Exposure time: 28 d, activated sludge, OECD

Test Guideline 301C

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).

Components:

2.5-bis(tert-dodecyldithio)-1,3,4-thiadiazole :

Bioaccumulation : Fish, Bioconcentration factor (BCF): 3,16

12.4 Mobility in soil

Product:

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:

2,5-bis(tert-dodecyldithio)-1,3,4-thiadiazole:

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

12.6 Other adverse effects

Product:

Additional ecological : No information on ecology is available.

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

information

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

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

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

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

Water contaminating class

(Germany)

: WGK 1: slightly water endangering

TA Luft List (Germany) : Total dust: Portion other substances: 8,6 %

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

applicable

Organic Substances: portion Class 1: 0,05 %; Portion other

substances: 91,35 %

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 R-phrases referred to under sections 2 and 3

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

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

H412 Harmful to aquatic life with long lasting effects.

Further information

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



OKS 416

Version 1.0 Revision Date 11.06.2016 Print Date 13.06.2016

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