

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : OKS 265

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

Use of the Sub-
stance/Mixture : Lubricant

Recommended restrictions
on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
D-82216 Maisach-Gernlinden
Tel.: +49 8142 3051 500
Fax.: +49 8142 3051 599
info@oks-germany.com

E-mail address of person
responsible for the SDS : mcm@oks-germany.com
Material Compliance Management

National contact :

1.4 Emergency telephone number

Emergency telephone num-
ber : +49 8142 3051 517

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Long-term (chronic) aquatic hazard, Category 2 H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



SAFETY DATA SHEET

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



OKS 265

Version 2.0 Revision Date: 19.07.2021 Date of last issue: 15.06.2018 Print Date: 19.07.2021
Date of first issue: 03.06.2016

Hazard pictograms :  

Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P391 Collect spillage.

Hazardous components which must be listed on the label:
calcium dihydroxide

2.3 Other hazards

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : lithium soap
solid lubricant
Synthetic hydrocarbon oil

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration limits M-Factor Notes | Concentration (% w/w) |
|---------------------|---|--------------------|---|--------------------------|
| calcium dihydroxide | 1305-62-0 | Skin Irrit.2; H315 | | >= 10 - < 20 |

SAFETY DATA SHEET

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



OKS 265

Version 2.0 Revision Date: 19.07.2021 Date of last issue: 15.06.2018 Print Date: 19.07.2021
Date of first issue: 03.06.2016

| | | | | |
|--|---|--|---------------|-------------------|
| | 215-137-3 01-2119475151-45-XXXX | Eye Dam.1; H318 STOT SE3; H335 | | |
| dizinc pyrophosphate | 7446-26-6 231-203-4 01-2120768152-56-XXXX | Aquatic Acute1; H400 Aquatic Chronic1; H410 | M-Factor: 1/1 | $\geq 2,5 - < 10$ |
| zinc oxide | 1314-13-2 215-222-5 030-013-00-7 01-2119463881-32-XXXX | Aquatic Acute1; H400 Aquatic Chronic1; H410 | M-Factor: 1/1 | $\geq 0,25 - < 1$ |
| Substances with a workplace exposure limit : | | | | |
| Ethylene, tetrafluoro-, polymer | 9002-84-0 618-337-2 | Not classified | | $\geq 1 - < 10$ |
| thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxy-phenyl)propionate] | 41484-35-9 255-392-8 01-2119960149-32-XXXX | Not classified | | $\geq 1 - < 10$ |

For explanation of abbreviations see section 16.

SECTION 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.

SAFETY DATA SHEET

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



OKS 265

| | | | |
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| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Get medical attention immediately.
- 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 : Skin contact may provoke the following symptoms:
Erythema
Allergic appearance
- Risks : Causes skin irritation.
May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.
Treat symptomatically.

SECTION 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

- Hazardous combustion products : Carbon oxides
Sulphur oxides
Oxides of phosphorus
Halogenated compounds
Metal 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. 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.

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

SECTION 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).
Do not breathe vapours, aerosols.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material 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.

SECTION 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.
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.
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.

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

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
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| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

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.

Storage class (TRGS 510) : 11, Combustible Solids

7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|-------------------------------|------------------------|--------------------------|
| calcium dihydroxide | 1305-62-0 | AGW (Inhalable fraction) | 1 mg/m ³ | DE TRGS 900 (2014-12-08) |
| Peak-limit: excursion factor (category) | 2;(I) | | | |
| Further information | When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child | | | |
| | | TWA (Respirable fraction) | 1 mg/m ³ | 2017/164/EU (2017-02-01) |
| Further information | Indicative | | | |
| | | STEL (Respirable fraction) | 4 mg/m ³ | 2017/164/EU (2017-02-01) |
| Further information | Indicative | | | |
| Ethylene, tetrafluoro-, polymer | 9002-84-0 | AGW (Inhalable fraction) | 10 mg/m ³ | DE TRGS 900 (2020-03-30) |
| Peak-limit: excursion factor (category) | 2;(II) | | | |
| | | AGW (Alveolate fraction) | 1,25 mg/m ³ | DE TRGS 900 (2020-03-30) |
| Peak-limit: excursion factor (category) | 2;(II) | | | |
| thiodiethylene bis[3-(3,5-di-tert- | 41484-35-9 | AGW (Inhalable fraction) | 2 mg/m ³ | DE TRGS 900 |

SAFETY DATA SHEET

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



OKS 265

Version 2.0 Revision Date: 19.07.2021 Date of last issue: 15.06.2018
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19.07.2021

| | | | | |
|---|--------|--|--|--------------|
| butyl-4-hydroxyphenyl)propionate] | | | | (2018-06-07) |
| Peak-limit: excursion factor (category) | 2;(II) | | | |

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---------|-----------------|----------------------------|------------------------|
| calcium dihydroxide | Workers | Inhalation | Long-term local effects | 1 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 4 mg/m ³ |
| dizinc pyrophosphate | Workers | Skin contact | Long-term systemic effects | 192 mg/kg |
| | Workers | Inhalation | Long-term systemic effects | 13,5 mg/m ³ |
| thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] | Workers | Inhalation | Long-term systemic effects | 3 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 3 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 13,8 mg/kg |
| zinc oxide | Workers | Inhalation | Long-term systemic effects | 5 mg/m ³ |
| | Workers | Inhalation | Long-term local effects | 0,5 mg/m ³ |
| | Workers | Skin contact | Long-term systemic effects | 83 mg/kg |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment | Value |
|---|--|-------------|
| calcium dihydroxide | Fresh water | 0,49 mg/l |
| | Marine water | 0,32 mg/l |
| | Intermittent use/release | 0,49 mg/l |
| | Microbiological Activity in Sewage Treatment Systems | 3 mg/l |
| dizinc pyrophosphate | Soil | 1080 mg/kg |
| | Fresh water | 0,233 µg/l |
| | Marine water | 0,0233 µg/l |
| | Sewage treatment plant | 0,052 mg/l |
| | Fresh water sediment | 25,6 mg/kg |
| thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] | Marine sediment | 2,56 mg/kg |
| | Soil | 5,13 mg/kg |
| | Sewage treatment plant | 1 mg/l |
| zinc oxide | Fresh water | 0,0206 mg/l |
| | Marine water | 0,0061 mg/l |
| | Microbiological Activity in Sewage Treat- | 0,100 mg/l |

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

| | | |
|--|----------------------|-------------|
| | ment Systems | |
| | Fresh water sediment | 117,8 mg/kg |
| | Marine sediment | 56,5 mg/kg |
| | Soil | 35,6 mg/kg |

8.2 Exposure controls

Engineering measures

none

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber

Break through time : > 10 min

Protective index : Class 1

Remarks : Wear protective gloves. 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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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

Filter type : Filter type A-P

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : white

Odour : odourless

Odour Threshold : No data available

SAFETY DATA SHEET

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



OKS 265

| | | | |
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| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

pH : Not applicable
substance/mixture is non-soluble (in water)

Melting point/range : Not applicable

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : < 0,001 hPa (20 °C)

Relative vapour density : No data available

Relative density : 1,02 (20 °C)
Reference substance: Water
The value is calculated

Density : 1,02 g/cm³
(20 °C)

Bulk density : No data available

Solubility(ies)
Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : No data available

SAFETY DATA SHEET

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



OKS 265

| | | | |
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| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

9.2 Other information

Sublimation point : No data available

Self-ignition : No data available

SECTION 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 : >280 °C danger of forming toxic fluorine-containing pyrolysis products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Acute dermal toxicity : Symptoms: Redness, Local irritation

Components:

calcium dihydroxide:

Acute oral toxicity : LD50 (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 425
GLP: yes

SAFETY DATA SHEET

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



OKS 265

| | | | |
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| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 6,04 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
GLP: yes

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.500 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

dizinc pyrophosphate:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 423
GLP: yes
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 4,73 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Guinea pig): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

zinc oxide:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,7 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Ethylene, tetrafluoro-, polymer:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 6,3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Product:

Remarks : Irritating to skin.

Components:

calcium dihydroxide:

Species : human skin
Assessment : Irritating to skin.
Method : OECD Test Guideline 431
Result : Irritating to skin.
GLP : yes

Species : Rabbit
Assessment : Irritating to skin.
Method : OECD Test Guideline 404
Result : Irritating to skin.
GLP : yes

dizinc pyrophosphate:

Species : human skin
Assessment : No skin irritation
Method : OECD Test Guideline 439
Result : No skin irritation
GLP : yes

zinc oxide:

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

Ethylene, tetrafluoro-, polymer:

Species : Rabbit
Assessment : No skin irritation
Result : No skin irritation

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Risk of serious damage to eyes.

Components:

calcium dihydroxide:

Species : Rabbit
Assessment : Risk of serious damage to eyes.
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.
GLP : yes

dizinc pyrophosphate:

Species : Bovine cornea
Assessment : No eye irritation
Method : OECD Test Guideline 437
Result : No eye irritation
GLP : yes

zinc oxide:

Species : Rabbit
Assessment : No eye irritation
Method : OECD Test Guideline 405
Result : No eye irritation
GLP : yes

Ethylene, tetrafluoro-, polymer:

Species : Rabbit
Assessment : No eye irritation
Result : No eye irritation

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Species : Rabbit
Assessment : No eye irritation
Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

calcium dihydroxide:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.
GLP : yes

dizinc pyrophosphate:

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Assessment : Did not cause sensitisation on laboratory animals.
Method : OECD Test Guideline 429
Result : Did not cause sensitisation on laboratory animals.
GLP : yes

zinc oxide:

Test Type : Maximisation Test
Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : yes

Ethylene, tetrafluoro-, polymer:

Assessment : Did not cause sensitisation on laboratory animals.
Result : Did not cause sensitisation on laboratory animals.

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Test Type : Maximisation Test
Species : Guinea pig

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : Does not cause skin sensitisation.
GLP : yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

calcium dihydroxide:

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
GLP: yes

zinc oxide:

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Hamster
Method: Mutagenicity (micronucleus test)
Result: negative

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Carcinogenicity

Product:

Remarks : No data available

Components:

calcium dihydroxide:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

zinc oxide:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Ethylene, tetrafluoro-, polymer:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Components:

calcium dihydroxide:

Reproductive toxicity - Assessment : No toxicity to reproduction
No effects on or via lactation

zinc oxide:

Reproductive toxicity - Assessment : No toxicity to reproduction
No toxicity to reproduction

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Reproductive toxicity - Assessment : No toxicity to reproduction
Animal testing did not show any effects on foetal development.

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

STOT - single exposure

Components:

calcium dihydroxide:

Assessment : May cause respiratory irritation.

zinc oxide:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Ethylene, tetrafluoro-, polymer:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Components:

zinc oxide:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Ethylene, tetrafluoro-, polymer:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Species : Rat
NOAEL : ≥ 138 mg/kg
Application Route : Oral
Method : OECD Test Guideline 408

Aspiration toxicity

Product:

This information is not available.

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Components:

dizinc pyrophosphate:

No aspiration toxicity classification

zinc oxide:

No aspiration toxicity classification

Ethylene, tetrafluoro-, polymer:

No aspiration toxicity classification

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

No aspiration toxicity classification

Further information

Product:

Remarks : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: Toxic 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/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

Components:

calcium dihydroxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 50,6 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 49,1 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 184,57 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 32 mg/l
Exposure time: 14 d
Species: Crangon crangon (shrimp)
Test Type: semi-static test

dizinc pyrophosphate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,948 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): < 5,6 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,233 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

zinc oxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,55 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l
Exposure time: 48 h

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,136 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 0,04 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 57 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: Aquatic toxicity is unlikely due to low solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
Remarks: No toxicity at the limit of solubility

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

GLP: yes

Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : EC20 (activated sludge): > 100 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

Components:

calcium dihydroxide:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

zinc oxide:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Biodegradability : Test Type: Primary biodegradation
Inoculum: activated sludge
Result: Not rapidly biodegradable
Biodegradation: 7 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Components:

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Exposure time: 56 d
Bioconcentration factor (BCF): <= 12
Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water : log Pow: 10 (25 °C)

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

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:

dizinc pyrophosphate:

Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

zinc oxide:

Assessment : Remarks: Not applicable

Ethylene, tetrafluoro-, polymer:

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

thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate]:

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

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

12.6 Other adverse effects

Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Additional ecological information : Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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.

Waste codes should be assigned by the user based on the application for which the product was used.

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.

The following Waste Codes are only suggestions:

Waste Code : used product, unused product
12 01 12*, spent waxes and fats

uncleaned packagings
15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number

ADN : UN 3077
ADR : UN 3077
RID : UN 3077
IMDG : UN 3077

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

IATA : UN 3077

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(dizinc pyrophosphate)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(dizinc pyrophosphate)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(dizinc pyrophosphate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(dizinc pyrophosphate)

IATA : Environmentally hazardous substance, solid, n.o.s.
(dizinc pyrophosphate)

14.3 Transport hazard class(es)

ADN : 9

ADR : 9

RID : 9

IMDG : 9

IATA : 9

14.4 Packing group

ADN
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

ADR
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

RID
Packing group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

IMDG
Packing group : III
Labels : 9
EmS Code : F-A, S-F

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

IATA (Cargo)

Packing instruction (cargo aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 956
Packing instruction (LQ) : Y956
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 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).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that de- : Not applicable

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

Water contaminating class (Germany) : WGK 2 obviously hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
others: 29,52 %

Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
portion Class 1: 1,14 %
others: 69,34 %

Carcinogenic substances:
Not applicable
Mutagenic:
Not applicable
Toxic to reproduction:
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Not applicable

15.2 Chemical safety assessment

This information is not available.

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.
2017/164/EU / STEL : Short term exposure limit
2017/164/EU / TWA : Limit Value - eight hours
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS -

SAFETY DATA SHEET

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



OKS 265

| | | | |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 15.06.2018 | Print Date: |
| 2.0 | 19.07.2021 | Date of first issue: 03.06.2016 | 19.07.2021 |

Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Skin Irrit. 2 H315

Eye Dam. 1 H318

Aquatic Chronic 2 H411

Classification procedure:

Calculation method

Calculation method

Calculation method

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