

## OKS 217

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

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

#### Product information

Product name : OKS 217

Use of the Substance/Mixture : Lubricant

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### 2. Hazards identification

#### GHS Classification

: Skin irritation, Category 2  
Serious eye damage, Category 1

#### GHS-Labeling

Symbol(s) :



Signal word : Danger

Hazard statements : H315: Causes skin irritation.  
H318: Causes serious eye damage.

Precautionary statements : **Prevention:**  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

**3. Composition/information on ingredients**

Chemical nature : Mineral oil.  
graphite  
solid lubricant

**Hazardous components**

Chemical name	CAS-No.	Concentration[%]
White mineral oil (petroleum)	8042-47-5	30 - 50
Graphite	7782-42-5	20 - 30
calcium dihydroxide	1305-62-0	10 - 20
zirconium dioxide	1314-23-4	10 - 20

**4. First aid measures**

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact : Take off all contaminated clothing immediately.  
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.  
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.



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

**Notes to physician**

- Symptoms : Skin contact may provoke the following symptoms:  
Erythema
- Risks : Causes skin irritation.
- Treatment : Treat symptomatically.

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**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  
Metal 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.

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**6. Accidental release measures**

- 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.
- Environmental precautions : Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
- Methods for cleaning up : Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

**7. Handling and storage**

**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.

**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
Graphite	7782-42-5	PC-TWA	4 mg/m3	2007-04-27	GBZ 2.1-2007
Graphite	7782-42-5	PC-TWA	2 mg/m3	2007-04-27	GBZ 2.1-2007
zirconium dioxide	1314-23-4	PC-TWA	5 mg/m3	2007-04-27	GBZ 2.1-2007
zirconium dioxide	1314-23-4	PC-STEL	10 mg/m3	2007-04-27	GBZ 2.1-2007



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

**Engineering measures**

Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

- Respiratory protection : Not required; except in case of aerosol formation.  
Filter type A-P
  
- Hand protection : Nitrile 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 : 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.

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**9. Physical and chemical properties**

**Appearance**

- Form : paste
- Colour : black
  
- Odour : characteristic

**Safety data**

- Flash point : Note: Not applicable
  
- Ignition temperature : Remarks: No data available



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

Lower explosion limit	: Note: No data available
Upper explosion limit	: Note: No data available
Flammability (solid, gas)	: Combustible Solids
Oxidizing properties	: Note: No data available
Auto-ignition temperature	: Note: not auto-flammable
pH	: Note: Not applicable
Melting point/range	: Note: No data available
Boiling point/boiling range	: Note: No data available
Sublimation point	: Note: No data available
Vapour pressure	: < 0.001 hPa at 20 °C
Density	: 1.27 g/cm <sup>3</sup> at 20 °C
Bulk density	: Note: No data available
Water solubility	: Note: insoluble
Partition coefficient: n-octanol/water	: Note: No data available
Solubility in other solvents	: Note: No data available
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: Note: Not applicable
Relative vapour density	: Note: No data available
Evaporation rate	: Note: No data available

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**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.



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

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 : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method  
:  
Symptoms: Redness, Local irritation

**Skin corrosion/irritation**

Skin irritation : Remarks: Irritating to skin.

**Serious eye damage/eye irritation**

Eye irritation : Remarks: Risk of serious damage to eyes.

**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

**Target Organ Systemic Toxicant - Single exposure**

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

calcium dihydroxide : Remarks: May cause respiratory irritation.

**Target Organ Systemic Toxicant - Repeated exposure**

: This information is not available.

**Target Organ Systemic Toxicant - Repeated exposure**



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

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

**Aspiration hazard**

Aspiration toxicity : This information is not available.

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

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**12. Ecological information**

**Ecotoxicity effects**

Toxicity to fish :  
Remarks:  
No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks:  
No data available

Toxicity to algae : Remarks:  
No data available

Toxicity to bacteria : Remarks:  
No data available

**Elimination information (persistence and degradability)**

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

Mobility : Remarks:  
No data available

Distribution among environmental compartments : Remarks:  
No data available





**OKS 217**

Version 2.1

Revision Date 2018-02-13

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Biodegradability : Remarks:  
No data available

Physico-chemical removability : Remarks:  
No data available

**Further information on ecology**

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

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

calcium dihydroxide :

calcium dihydroxide :

calcium dihydroxide :

Results of PBT assessment Graphite : Non-classified vPvB substance, Non-classified PBT substance

Additional ecological information : No information on ecology is available.

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**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.

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**14. Transport information**

**ADR**

Not dangerous goods

**IATA**



**OKS 217**

Version 2.1

Revision Date 2018-02-13

Print Date 2018-02-13

Not dangerous goods

**IMDG**

Not dangerous goods

Other information : No special precautions required.

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**15. Regulatory information**

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

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**16. Other information**

**Further information**

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