

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

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

#### 1.1 Product identifier

Product name : OKS 270

#### 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 Spezialechmierstoffe GmbH  
Ganghoferstr. 47  
D-82216 Maisach-Gernlinden  
Tel.: +49 8142 3051 500  
Fax.: +49 8142 3051 599

E-mail address of person responsible for the SDS : mcm@oks-germany.com  
National contact :

#### 1.4 Emergency telephone number

Emergency telephone number : +49 8142 3051 517  
Warszawa: +48 22 619 66 54

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Short-term (acute) aquatic hazard, Category 1 H400: Very toxic to aquatic life.

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 - PL



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

Hazard pictograms : 

Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.

### Additional Labelling

EUH208 Contains Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts. May produce an allergic reaction.

### 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 : Mineral oil.  
PTFE  
solid lubricant  
lithium soap

### Hazardous components

Chemical name	CAS-No. EC-No.  Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1  649-467-00-8	Asp. Tox.1; H304	Note L, Note H	$\geq 30 - < 50$
Amines, N-tallow al- kyltrimethylenedi-, oleates	61791-53-5 263-186-4	Skin Irrit.2; H315 Eye Irrit.2; H319 STOT RE2; H373 Aquatic Acute1; H400 Aquatic Chronic1;	M-Factor: 10/1	$\geq 2,5 - < 10$

# SAFETY DATA SHEET

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



## OKS 270

Version 2.1      Revision Date: 04.07.2019      Date of last issue: 10.10.2018      Print Date: 04.07.2019  
Date of first issue: 01.07.2016

zinc oxide	1314-13-2 215-222-5  030-013-00-7 01-2119463881-32-XXXX	H410 Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 1/1	$\geq 1 - < 2,5$
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Not Assigned 939-603-7  01-2119978241-36-XXXX	Skin Sens.1B; H317	$> 10 - 100 \%$ Skin Sens.1B, H317	$\geq 0,1 - < 1$

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.
- 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.

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

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.

---

## 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

Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon oxides  
Halogenated compounds  
Metal oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Oxides of phosphorus

### 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.

---

## 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

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

(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.  
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.

### 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.

### 7.3 Specific end use(s)

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

# SAFETY DATA SHEET

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



## OKS 270

Version 2.1      Revision Date: 04.07.2019      Date of last issue: 10.10.2018      Print Date: 04.07.2019  
Date of first issue: 01.07.2016

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
zinc oxide	1314-13-2	NDS (inhalable fraction)	5 mg/m <sup>3</sup> (Zinc)	PL OEL (2018-07-07)
Further information	Inhalable fraction - the fraction of aerosol penetrating through the nose and mouth, which after deposit in the respiratory tract poses a threat to health, determined in accordance with standard PN-EN 481.			
		NDSch (inhalable fraction)	10 mg/m <sup>3</sup> (Zinc)	PL OEL (2018-07-07)
Further information	Inhalable fraction - the fraction of aerosol penetrating through the nose and mouth, which after deposit in the respiratory tract poses a threat to health, determined in accordance with standard PN-EN 481.			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Workers	Inhalation	Long-term local effects	5,6 mg/m <sup>3</sup>
Amines, N-tallow alkyltrimethylenedi-, oleates	Workers	Skin contact	Long-term systemic effects	0,04 mg/kg
	Workers	Inhalation	Long-term systemic effects	0,29 mg/m <sup>3</sup>
zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Workers	Inhalation	Long-term systemic effects	35,26 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	
Remarks:	No hazard identified			
	Workers	Inhalation	Acute systemic effects	
Remarks:	No hazard identified			
	Workers	Inhalation	Acute local effects	
Remarks:	No hazard identified			
	Workers	Dermal	Long-term systemic	25 mg/kg

# SAFETY DATA SHEET

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



## OKS 270

Version  
2.1

Revision Date:  
04.07.2019

Date of last issue: 10.10.2018  
Date of first issue: 01.07.2016

Print Date:  
04.07.2019

			effects	
	Workers	Dermal	Long-term local effects	
Remarks:	No hazard identified			
	Workers	Dermal	Acute systemic effects	
Remarks:	No hazard identified			
	Workers	Dermal	Acute local effects	
Remarks:	No hazard identified			

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

Substance name	Environmental Compartment	Value	
Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified	Oral	9,33 mg/kg	
	Fresh water	0,00638 mg/l	
	Marine water	0,000638 mg/l	
	Intermittent use/release	0,00509 mg/l	
Amines, N-tallow alkyltrimethylenedi-, oleates	Microbiological Activity in Sewage Treatment Systems	98,6 mg/l	
	Fresh water sediment	204 mg/kg	
	Marine sediment	20,4 mg/kg	
	Soil	9,93 mg/kg	
	Fresh water	0,0206 mg/l	
	Marine water	0,0061 mg/l	
	Microbiological Activity in Sewage Treatment Systems	0,100 mg/l	
zinc oxide	Fresh water sediment	117,8 mg/kg	
	Marine sediment	56,5 mg/kg	
	Soil	35,6 mg/kg	
	Fresh water	0,1 mg/l	
	Marine water	0,1 mg/l	
	Fresh water sediment	45211 mg/kg	
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Marine sediment	45211 mg/kg	
	Microbiological Activity in Sewage Treatment Systems	1000 mg/l	
	Air		
	Remarks:	No data available	
		Soil	36739 mg/kg

## 8.2 Exposure controls

### Engineering measures

none

### Personal protective equipment

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

Eye protection : Tightly fitting safety goggles

Hand protection  
Material : Fluorinated rubber  
Protective index : Class 1

Remarks : Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 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.

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 : beige

Odour : hydrocarbon-like

Odour Threshold : No data available

pH : Not applicable

Drop point : > 190 °C  
(1.013 hPa)

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Combustible Solids



# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : < 0,01 hPa (20 °C)

Relative vapour density : No data available

Density : 1,15 g/cm<sup>3</sup>  
(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

### 9.2 Other information

Sublimation point : No data available

Metal corrosion rate : Not corrosive to metals

Self-ignition : not auto-flammable

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

### 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

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

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

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

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

##### Components:

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

#### **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 inhala-

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

tion 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

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1,9 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  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Product:**

Remarks: This information is not available.

#### **Components:**

##### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

Species: Rabbit  
Assessment: Irritating to skin.  
Result: Irritating to skin.

##### **zinc oxide:**

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

##### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

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

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: This information is not available.

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

### Components:

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

Species: Rabbit  
Assessment: Irritating to eyes.  
Method: OECD Test Guideline 405  
Result: Irritating to eyes.

#### **zinc oxide:**

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

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No skin irritation

### **Respiratory or skin sensitisation**

#### Product:

Remarks: This information is not available.

### Components:

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

Assessment: Does not cause skin sensitisation.  
Result: Does not cause skin sensitisation.

#### **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

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans  
Result: Probability or evidence of low to moderate skin sensitisation rate in humans

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : Remarks: No data available

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

Genotoxicity in vivo : Remarks: No data available

### Components:

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

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

#### **zinc oxide:**

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

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

### **Carcinogenicity**

#### Product:

Remarks: No data available

### Components:

#### **distillates (petroleum), hydrotreated heavy paraffinic:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

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

#### **zinc oxide:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

### Components:

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

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

#### **zinc oxide:**

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

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

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

### **STOT - single exposure**

#### Components:

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

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

#### **zinc oxide:**

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

### **STOT - repeated exposure**

#### Components:

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

Exposure routes: Ingestion

Assessment: May cause damage to organs through prolonged or repeated exposure.

#### **zinc oxide:**

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.

# SAFETY DATA SHEET

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



## OKS 270

Version 2.1	Revision Date: 04.07.2019	Date of last issue: 10.10.2018 Date of first issue: 01.07.2016	Print Date: 04.07.2019
----------------	------------------------------	---	---------------------------

### Aspiration toxicity

#### Product:

This information is not available.

#### Components:

##### **distillates (petroleum), hydrotreated heavy paraffinic:**

May be fatal if swallowed and enters airways.

May be harmful if swallowed and enters airways.

##### **zinc oxide:**

No aspiration toxicity classification

### Further information

#### Product:

Remarks: Information given is based on data on the components and the toxicology of similar products.

#### Components:

##### **distillates (petroleum), hydrotreated heavy paraffinic:**

Remarks: Information given is based on data on the components and the toxicology of similar products.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: Very toxic to aquatic organisms.

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

Toxicity to algae : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

#### Components:

##### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,1 - 1 mg/l

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,1 - 1 mg/l  
Exposure time: 48 h

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Short-term (acute) aquatic hazard) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: > 0,1 - 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Reproduction Test  
Method: OECD Test Guideline 211

M-Factor (Long-term (chronic) aquatic hazard) : 1

### Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

### 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  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae : 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 (Short-term (acute) aquatic hazard) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l



# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

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 (Long-term (chronic) aquatic hazard) : 1

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : NOELR (Desmodesmus subspicatus (green algae)): 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

## 12.2 Persistence and degradability

### **Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### **Components:**

#### **Amines, N-tallow alkyltrimethylenedi-, oleates:**

Biodegradability : Result: rapidly biodegradable

#### **zinc oxide:**

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

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

### Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

### 12.3 Bioaccumulative potential

#### Product:

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).

#### Components:

##### Amines, N-tallow alkyltrimethylenedi-, oleates:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

##### Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:

Bioaccumulation : Bioconcentration factor (BCF): 70,8

Partition coefficient: n-octanol/water : log Pow: 26,22 (20 °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:

##### Amines, N-tallow alkyltrimethylenedi-, oleates:

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

# SAFETY DATA SHEET

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



## OKS 270

Version 2.1	Revision Date: 04.07.2019	Date of last issue: 10.10.2018 Date of first issue: 01.07.2016	Print Date: 04.07.2019
----------------	------------------------------	---	---------------------------

### zinc oxide:

Assessment : Remarks: Not applicable

### 12.6 Other adverse effects

#### Product:

Additional ecological information : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 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:

## SECTION 14: Transport information

### 14.1 UN number

ADR : UN 3077

IMDG : UN 3077

IATA : UN 3077

### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(fatty amine derivative)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(fatty amine derivative)

IATA : Environmentally hazardous substance, solid, n.o.s.  
(fatty amine derivative)

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

### 14.3 Transport hazard class(es)

**ADR** : 9  
**IMDG** : 9  
**IATA** : 9

### 14.4 Packing group

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

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

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Class 9 - Miscellaneous dangerous substances and articles

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Class 9 - Miscellaneous dangerous substances and articles

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : yes

**IMDG**  
Marine pollutant : yes

**IATA (Passenger)**  
Environmentally hazardous : yes

**IATA (Cargo)**  
Environmentally hazardous : yes

### 14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

### 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 deplete the ozone layer : Not applicable
- Regulation (EC) No 850/2004 on persistent organic pollutants : 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

E1

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

		Quantity 1	Quantity 2
E1	ENVIRONMENTAL HAZARDS	100 t	200 t

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

Other regulations:

Act of 25 February 2011 on the Chemical Substances and Their Mixtures (consolidated text Dz. U. 2015, item 1203).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP 1-7).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC,

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).

Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. Nr. 259, item 2173).

Ordinance of the Minister of Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (OJ 2018 pos 1286)

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166).

Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended).

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).

Act of 13 June 2013. On packaging and packaging waste Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Environment of 9th December 2014 on Waste Catalog (Dz. U. 2014 item 1923).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of 26 July 2005 on enforcing of changes Annexes A and B of European Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. Nr. 178, item 1481, as amended).

Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450).

Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

- H304 : May be fatal if swallowed and enters airways.
- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H319 : Causes serious eye irritation.
- H373 : May cause damage to organs through prolonged or repeated

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

H400 : exposure if swallowed.  
: Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Note H : The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered. The final label shall follow the requirements of Article 17 and of section 1.2 of Annex I.

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

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; AICS - Australian Inventory of Chemical Substances; 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

# SAFETY DATA SHEET

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



## OKS 270

Version	Revision Date:	Date of last issue: 10.10.2018	Print Date:
2.1	04.07.2019	Date of first issue: 01.07.2016	04.07.2019

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 - 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:

Aquatic Acute 1	H400
Aquatic Chronic 2	H411

#### Classification procedure:

Calculation method
Calculation method

This safety data sheet applies only to products originally packed and labelled by OKS Spezialschmierstoffe. The information contained therein may not be reproduced or modified without the express written permission of OKS Spezialschmierstoffe. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of our safety data sheets (e.g. as a document for download from the Internet) is not permitted without the express written consent of OKS Spezialschmierstoffe. OKS Spezialschmierstoffe provides its customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. OKS Spezialschmierstoffe provides no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorised trading partner of OKS Spezialschmierstoffe.