

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23      Print Date: 2023-03-03

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 387

Chemical nature : polyalkylene glycol oil  
graphite

#### Manufacturer or supplier's details

Company name of supplier : 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 :

Emergency telephone number : +86 532 8388 9090 (NRCC, only for hazardous chemicals)  
+86 21 69225521

#### Recommended use of the chemical and restrictions on use

Recommended use : Lubricant

Restrictions on use : Restricted to professional users.

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	: liquid
Colour	: black
Odour	: characteristic

Not a hazardous substance or mixture.

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4    Revision Date: 2023-03-03    Date of last issue: 2021-12-07  
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### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Not classified based on available information.

### Environmental hazards

Not classified based on available information.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
graphite (synthetic)	7782-42-5	$\geq 10$ - $< 20$

## 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 breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
In case of contact, immediately flush skin with plenty of water.
- 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.  
Do NOT induce vomiting.  
Rinse mouth with water.
- Most important symptoms and effects, both acute and delayed : No information available.  
None known.
- Notes to physician : No information available.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4    Revision Date: 2023-03-03    Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23    Print Date: 2023-03-03

### 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)
- Specific extinguishing methods : Standard procedure for chemical fires.
- 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.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas. Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 7. HANDLING AND STORAGE

#### Handling

- Advice on safe handling : 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.
- Avoidance of contact : No materials to be especially mentioned.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
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### Storage

Conditions for safe storage : 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 type (Form of exposure)	Control parameters / Permissible concentration	Basis
graphite (synthetic)	7782-42-5	PC-TWA (Total dust)	4 mg/m <sup>3</sup>	CN OEL (2019-08-27)
		PC-TWA (Respirable dust)	2 mg/m <sup>3</sup>	CN OEL (2019-08-27)
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH (2007-01-01)

Engineering measures : none

### Personal protective equipment

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

Filter type : Filter type A-P

Eye/face protection : Safety glasses with side-shields

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

### Hand protection

Material : butyl-rubber

Break through time : > 10 min

Protective index : Class 1

Remarks : For prolonged or repeated contact use 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.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23      Print Date: 2023-03-03

- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : black
- Odour : characteristic
- Odour Threshold : No data available
- pH : Not applicable  
substance/mixture is non-polar/aprotic
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : 240 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : Not applicable
- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : < 1,100 hPa (20 °C)
- Relative vapour density : No data available

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
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Relative density	:	1.04 (20 °C) Reference substance: Water The value is calculated
Density	:	1.04 g/cm <sup>3</sup> (20 °C)
Bulk density	:	No data available
Solubility(ies)	:	
Water solubility	:	immiscible
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	:	200 mm <sup>2</sup> /s ( 40 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available
Sublimation point	:	No data available

## 10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No conditions to be specially mentioned.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
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### 11. TOXICOLOGICAL INFORMATION

#### 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:

##### **graphite (synthetic):**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 2,000 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

#### Skin corrosion/irritation

##### Product:

Remarks : This information is not available.

##### Components:

##### **graphite (synthetic):**

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

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23      Print Date: 2023-03-03

### Serious eye damage/eye irritation

**Product:**

Remarks : This information is not available.

**Components:**

**graphite (synthetic):**

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

### Respiratory or skin sensitisation

**Product:**

Remarks : This information is not available.

**Components:**

**graphite (synthetic):**

Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative

### Germ cell mutagenicity

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:**

**graphite (synthetic):**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: gene mutation test  
Method: OECD Test Guideline 476  
Result: negative



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4    Revision Date: 2023-03-03    Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23    Print Date: 2023-03-03

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

### Carcinogenicity

#### Product:

Remarks : No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

#### Components:

##### **graphite (synthetic):**

Effects on fertility : Species: Rat  
Application Route: Oral  
General Toxicity F1: NOAEL: 813 mg/kg body weight  
Method: OECD Test Guideline 422

### Repeated dose toxicity

#### Product:

Remarks : This information is not available.

#### Components:

##### **graphite (synthetic):**

Species : Rat  
NOAEL : 813 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 422

Species : Rat  
NOAEL : > 2 mg/l  
Application Route : inhalation (dust/mist/fume)

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23      Print Date: 2023-03-03

Method : OECD Test Guideline 412

### Aspiration toxicity

#### Product:

This information is not available.

### Further information

#### Product:

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

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish :  
Remarks: No data available

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:

##### **graphite (synthetic):**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 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

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4    Revision Date: 2023-03-03    Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23    Print Date: 2023-03-03

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **graphite (synthetic):**

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

### 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).

### Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### Other adverse effects

#### Product:

Additional ecological information : No information on ecology is available.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23      Print Date: 2023-03-03

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
- 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.

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

##### IATA-DGR

- UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

##### IMDG-Code

- UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : Not applicable

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

Not applicable for product as supplied.

#### National Regulations

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
Date of first issue: 2014-05-23      Print Date: 2023-03-03

### GB 6944/12268

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

### Special precautions for user

Not applicable

## 15. REGULATORY INFORMATION

### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

#### Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals : Not applicable

Hazardous Chemicals for Priority Management under SAWS : Not applicable

#### Regulations on Labour Protection in Workplaces where Toxic Substances are Used

Catalogue of Highly Toxic Chemicals : Not applicable

#### Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

China Severely Restricted Toxic Chemicals for Import and Export : Not applicable

### International Regulations

Montreal Protocol : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

### The components of this product are reported in the following inventories:

IECSC : On the inventory, or in compliance with the inventory

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version 1.4      Revision Date: 2023-03-03      Date of last issue: 2021-12-07  
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### 16. OTHER INFORMATION

Date format : yyyy/mm/dd

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
CN OEL : Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average  
CN OEL / PC-TWA : Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519  
CN



## OKS 387

Version	Revision Date:	Date of last issue: 2021-12-07
1.4	2023-03-03	Date of first issue: 2014-05-23 Print Date: 2023-03-03

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