

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 464

Chemical nature : Synthetic hydrocarbon oil  
lithium soap  
solid lubricant

#### 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 : Grease

Restrictions on use : Restricted to professional users.

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: paste
<b>Colour</b>	: black
<b>Odour</b>	: characteristic

Causes mild skin irritation.

#### GHS Classification

Skin irritation : Category 3

#### GHS label elements

Hazard pictograms : None

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

Signal word : Warning

Hazard statements : H316 Causes mild skin irritation.

Precautionary statements : **Response:**  
P332 + P313 If skin irritation occurs: Get medical advice/  
attention.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Causes mild skin irritation.

### 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)
Carbon black	1333-86-4	$\geq 1$ -< 10
graphite (synthetic)	7782-42-5	$\geq 1$ -< 10
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	80939-62-4	$\geq 1$ -< 2.5
lithium 12-hydroxystearate	7620-77-1	$\geq 1$ -< 10
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	$\geq 0.25$ -< 1

## 4. FIRST AID MEASURES

If inhaled : Obtain medical attention.  
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.

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

- In case of skin contact : Take off all contaminated clothing immediately.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.  
Wash off immediately 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.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Obtain medical attention.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
- Notes to physician : Treat symptomatically.

## 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet  
High volume water jet
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)  
Oxides of phosphorus  
Metal oxides
- 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.

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : 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.
- 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 and materials for containment and cleaning up : Clean up promptly by sweeping or vacuum.  
Keep in suitable, closed containers for disposal.

### 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.
- Avoidance of contact : No materials to be especially mentioned.

#### 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.

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon black	1333-86-4	PC-TWA (Total dust)	4 mg/m <sup>3</sup>	CN OEL (2019-08-27)
Further information: G2B - Possibly carcinogenic to humans				
		TWA (Inhalable particulate matter)	3 mg/m <sup>3</sup>	ACGIH (2013-03-01)
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)
lithium 12-hydroxystearate	7620-77-1	TWA (Inhalable particulate matter)	10 mg/m <sup>3</sup>	ACGIH (2018-03-20)
		TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH (2018-03-20)

**Engineering measures** : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

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

Filter type : Filter type 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 : Nitrile rubber  
Break through time : > 10 min  
Protective index : Class 1

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

- 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.
- 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 : paste
- Colour : black
- Odour : characteristic
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/range : No data available
- Boiling point/boiling range : No data available
- Flash point : Not applicable
- Evaporation rate : No data available
- Flammability (solid, gas) : Combustible Solids
- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

Vapour pressure	:	ca. < 0.013 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	0.89 (20 °C) Reference substance: Water The value is calculated
Density	:	0.89 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
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	:	No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5    Revision Date: 2023-02-09    Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11    Print Date: 2023-02-09

products

### 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 : Symptoms: Redness, Local irritation

##### Components:

##### **Carbon black:**

Acute oral toxicity : LD50 (Rat): > 8,000 mg/kg  
Method: OECD Test Guideline 401

##### **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

##### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity



# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

### **lithium 12-hydroxystearate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Product:**

Remarks : Irritating to skin.

#### **Components:**

##### **Carbon black:**

Species : Rabbit  
Exposure time : 24 h  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

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

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

##### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Species : Rabbit  
Assessment : Irritating to skin.

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

Method : OECD Test Guideline 404  
Result : Irritating to skin.

### **lithium 12-hydroxystearate:**

Assessment : No skin irritation  
Method : OECD Test Guideline 439  
Result : No skin irritation

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

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

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

#### **Product:**

Remarks : Irritating to eyes.

#### **Components:**

##### **Carbon black:**

Species : Rabbit  
Result : No eye irritation  
Exposure time : 24 h  
Assessment : No eye irritation  
Method : OECD Test Guideline 405

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

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

##### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

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

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

### **lithium 12-hydroxystearate:**

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

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

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:**

##### **Carbon black:**

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

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

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

##### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Result : Did not cause sensitisation on laboratory animals.

##### **lithium 12-hydroxystearate:**

Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

### Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Method : OECD Test Guideline 406  
Result : Did not cause sensitisation on laboratory animals.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Components:

##### **Carbon black:**

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

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Species: Rat  
Application Route: Inhalation  
Result: Positive results were obtained in some in vivo tests.

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

##### **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 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

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

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Test system: Rodent cell line  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

### **Carcinogenicity**

#### **Product:**

Remarks : No data available

#### **Components:**

##### **Carbon black:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen., Carcinogenicity classification not possible from current data.

### **Reproductive toxicity**

#### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

#### **Components:**

##### **Carbon black:**

Reproductive toxicity - Assessment : - Fertility -  
Animal testing did not show any effects on fertility.  
- Teratogenicity -  
Animal testing did not show any effects on foetal development.

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

Effects on fertility : Species: Rat

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

Application Route: Oral  
General Toxicity F1: NOAEL: 813 mg/kg body weight  
Method: OECD Test Guideline 422

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.

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

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Reproductive toxicity - Assessment : - Fertility -  
Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

### **STOT - single exposure**

#### **Components:**

#### **Carbon black:**

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

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

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

### **STOT - repeated exposure**

#### **Components:**

#### **Carbon black:**

Exposure routes : Inhalation  
Target Organs : Lungs  
Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5    Revision Date: 2023-02-09    Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11    Print Date: 2023-02-09

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

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:**

##### **Carbon black:**

Species : Rat  
NOAEL : 0.001 mg/l  
Application Route : Inhalation  
Test atmosphere : dust/mist  
Exposure time : 90 d  
Target Organs : Lungs

##### **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)  
Method : OECD Test Guideline 412

### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Species : Rat  
LOAEL : 10 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 422

### **Aspiration toxicity**

#### **Product:**

This information is not available.

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5    Revision Date: 2023-02-09    Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11    Print Date: 2023-02-09

### Components:

#### **Carbon black:**

No aspiration toxicity classification

#### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

No aspiration toxicity classification

### **Further information**

#### Product:

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

### Components:

#### **Carbon black:**

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

#### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

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

---

## 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



# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

### Components:

#### **Carbon black:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5,600 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 10,000 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Bacteria): > 800 mg/l  
Exposure time: 3 h

#### **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

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

#### **Amines, C11-14-branched alkyl, monoethyl and diethyl phosphates:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.2 mg/l

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5    Revision Date: 2023-02-09    Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11    Print Date: 2023-02-09

aquatic invertebrates                      Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants            : EC50 (Selenastrum capricornutum (green algae)): > 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms                : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h

### **lithium 12-hydroxystearate:**

Toxicity to fish                                : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates    : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants            : EC50 (Pseudokirchneriella subcapitata (green algae)): > 160 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 160 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Toxicity to fish                                : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates    : EC50 (Daphnia magna (Water flea)): 51 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

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

### Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **Carbon black:**

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

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

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

##### **Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Biodegradability : Result: Not rapidly biodegradable  
Biodegradation: 12 %  
Method: OECD Test Guideline 301B

##### **lithium 12-hydroxystearate:**

Biodegradability : Primary biodegradation  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 74.7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

##### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 1 %  
Exposure time: 28 d

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

Method: OECD Test Guideline 301B  
GLP: yes

### 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, C11-14-branched alkyl, monohexyl and dihexyl phosphates:**

Partition coefficient: n-octanol/water : log Pow: < 2.3 (23 °C)  
pH: 7

##### **lithium 12-hydroxystearate:**

Partition coefficient: n-octanol/water : log Pow: 2.6

##### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Partition coefficient: n-octanol/water : log Pow: > 5

### 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.

#### Components:

##### **Carbon black:**

Results of PBT and vPvB 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

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

(vPvB).

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : 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.
- 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

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

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

#### 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

# SAFETY DATA SHEET

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



## OKS 464

Version 1.5      Revision Date: 2023-02-09      Date of last issue: 2022-11-07  
Date of first issue: 2014-03-11      Print Date: 2023-02-09

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

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

## 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

AIIIC - 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

# SAFETY DATA SHEET

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



## OKS 464

Version	Revision Date:	Date of last issue: 2022-11-07
1.5	2023-02-09	Date of first issue: 2014-03-11 Print Date: 2023-02-09

---

### Disclaimer

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our 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. We provide 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 authorized trading partner.