

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 536 石墨润滑涂料, 水质, 风干

Chemical nature : Aqueous solution
graphite
inorganic binding agent

Manufacturer or supplier's details

Company name of supplier : OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
82216 Maisach-Gernlinden
Deutschland
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

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

May cause an allergic skin reaction.

GHS Classification

Skin sensitisation : Category 1

GHS label elements


SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
Disposal:
P501 Dispose of contents/containers according the local government requirements.

Physical and chemical hazards

Not classified based on available information.

Health hazards

May cause an allergic skin reaction.

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)
2-methyl-2H-isothiazol-3-one	2682-20-4	>= 0.0025 -< 0.025

4. FIRST AID MEASURES

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

- 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.
Keep respiratory tract clear.
Do NOT induce vomiting.
Rinse mouth with water.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
No symptoms known or expected.
- 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
- Hazardous combustion products : Carbon oxides
Nitrogen oxides (NOx)
- Specific extinguishing methods : Standard procedure for chemical fires.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

for firefighters 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.
Ensure adequate ventilation.
Do not breathe vapours or spray mist.
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 : Do not breathe vapours or spray mist.
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.
Do not re-use empty containers.
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

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

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.

Protect from frost.

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 ³	CN OEL (2019-08-27)
		PC-TWA (Respirable dust)	2 mg/m ³	CN OEL (2019-08-27)
		TWA (Respirable particulate matter)	2 mg/m ³	ACGIH (2007-01-01)
2,2',2''-Nitrilotriethanol	102-71-6	TWA	5 mg/m ³	ACGIH (2013-03-01)

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

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

- 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.
- 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 : 9.2 (20 °C)
Concentration: 100 %
- Melting point/range : No data available
- Boiling point/boiling range : 100 °C
- Flash point : does not flash
- Evaporation rate : No data available
- Flammability (solid, gas) : Not applicable
- Flammability (liquids) : Will not burn
- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower : No data available

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

flammability limit	
Vapour pressure	: < 0.001 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: 1.1 (20 °C) Reference substance: Water The value is calculated
Density	: 1.10 g/cm ³ (20 °C)
Bulk density	: No data available
Solubility(ies)	
Water solubility	: completely miscible
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	: 105.7 mm ² /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.

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

Incompatible materials : No materials to be especially mentioned.
Hazardous decomposition products : No decomposition if stored and applied as directed.

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:

2-methyl-2H-isothiazol-3-one:

Acute oral toxicity : LD50 (Rat): 120 mg/kg
Method: OPPTS 870.1100
GLP: yes
Acute inhalation toxicity : LC50 (Rat): 0.11 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Acute dermal toxicity : LD50 (Rat): 242 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

2-methyl-2H-isothiazol-3-one:

Species : Rabbit

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

Assessment : Causes burns.
Method : OECD Test Guideline 404
Result : Causes burns.
GLP : yes

Serious eye damage/eye irritation

Product:

Remarks : This information is not available.

Components:

2-methyl-2H-isothiazol-3-one:

Result : Risk of serious damage to eyes.
Assessment : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

2-methyl-2H-isothiazol-3-one:

Test Type : Buehler Test
Species : Guinea pig
Assessment : The product is a skin sensitiser, sub-category 1A.
Method : OECD Test Guideline 406
Result : The product is a skin sensitiser, sub-category 1A.
GLP : yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

2-methyl-2H-isothiazol-3-one:

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

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

Carcinogenicity

Product:

Remarks : No data available

Components:

2-methyl-2H-isothiazol-3-one:

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

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Components:

2-methyl-2H-isothiazol-3-one:

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

STOT - single exposure

Product:

Remarks : No data available

Components:

2-methyl-2H-isothiazol-3-one:

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

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

STOT - repeated exposure

Product:

Remarks : No data available

Components:

2-methyl-2H-isothiazol-3-one:

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.

Aspiration toxicity

Product:

This information is not available.

Components:

2-methyl-2H-isothiazol-3-one:

No aspiration toxicity classification

Further information

Product:

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

Components:

2-methyl-2H-isothiazol-3-one:

Remarks : Ingestion causes burns of the upper digestive and respiratory tracts.

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

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:

2-methyl-2H-isothiazol-3-one:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.93 mg/l
Exposure time: 48 h
Test Type: flow-through test
Method: OECD Test Guideline 202
GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.044 mg/l
Exposure time: 21 d
Test Type: flow-through test
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical : Remarks: No data available

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

removability

Components:

2-methyl-2H-isothiazol-3-one:

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

2-methyl-2H-isothiazol-3-one:

Partition coefficient: n-octanol/water : log Pow: -0.486 (25 °C)
pH: 7

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.

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

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

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

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

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

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

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

China Severely Restricted Toxic Chemicals (2023) : 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

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

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version 2.2 Revision Date: 2024-06-12 Date of last issue: 2022-10-24
Date of first issue: 2014-06-30 Print Date: 2024-06-25

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

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

SAFETY DATA SHEET

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



OKS 536 石墨润滑涂料, 水质, 风干

Version	Revision Date:	Date of last issue: 2022-10-24
2.2	2024-06-12	Date of first issue: 2014-06-30 Print Date: 2024-06-25

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.