according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 403

Chemical nature : Mineral oil.

Calcium soap

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

mcm@oks-germany.com

responsible for the SDS

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 : solid Colour : brown

Odour : characteristic

May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

GHS Classification

Skin sensitisation : Category 1

Short-term (acute) aquatic

Category 3

hazard



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



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Long-term (chronic) aquatic

hazard

: Category 3

GHS label elements

Hazard pictograms

!>

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P272 Contaminated work clothing should not be allowed out of

the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical ad-

vice/ attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Disposal:

P501 Dispose of contents/containers according the local gov-

ernment requirements.

Physical and chemical hazards

Not classified based on available information.

Health hazards

May cause an allergic skin reaction.

Environmental hazards

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

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



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated light naph-	64742-53-6	>= 1 -< 10
thenic		
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	Not Assigned	>= 1 -< 10
(4-nonylphenoxy)acetic acid	3115-49-9	>= 0.25 -< 1

4. FIRST AID MEASURES

If inhaled : Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

advice.

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial respira-

tion.

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 without medical advice.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

May cause an allergic skin reaction.

Allergic appearance

Notes to physician : The first aid procedure should be established in consultation

with the doctor responsible for industrial medicine.

5. FIREFIGHTING MEASURES



according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Unsuitable extinguishing

media

High volume water jet

Hazardous combustion prod-

ucts

Carbon oxides Sulphur oxides Metal oxides

Specific extinguishing meth-

ods

Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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, protec: :

tive equipment and emer-

gency 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).

Avoid breathing dust.

Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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.

Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-



according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

plication 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Distillates (petroleum), hy- drotreated light naphthenic	64742-53-6	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH (2013-03-01)

Engineering measures : It is recommended that all dust control equipment such as

local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen defi-

cient environment.

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

Hand protection



according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Material : Nitrile 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.

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 spe-

cific work-place.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Colour : brown

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : > 200 °C

Evaporation rate : No data available

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



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Flammability (solid, gas) : No data available

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 : < 0.001 hPa (20 °C)

Relative vapour density : No data available

Relative density : 0.94 (20 °C)

Reference substance: Water The value is calculated

Density : 0.94 g/cm3 (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 : No data available

Explosive properties : Not explosive

Oxidizing properties : No data available

Sublimation point : No data available

10. STABILITY AND REACTIVITY

according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

: 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.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

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

Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Symptoms: Redness, Local irritation

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 5,000 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:



according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

(4-nonylphenoxy)acetic acid:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after

single ingestion.

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Species : Rabbit

Assessment : No skin irritation Result : No skin irritation

GLP : yes

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

Assessment : No skin irritation Result : No skin irritation

(4-nonylphenoxy)acetic acid:

Result : Causes burns.

Serious eye damage/eye irritation

Product:

Remarks : This information is not available.



according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Species : Rabbit

Result : No eye irritation Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

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

Result : No eye irritation
Assessment : No eye irritation

(4-nonylphenoxy)acetic acid:

Remarks : Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Test Type : Buehler 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:

Species : Guinea pig

Assessment : The product is a skin sensitiser, sub-category 1B. Result : The product is a skin sensitiser, sub-category 1B.

(4-nonylphenoxy)acetic acid:

Assessment : The product is a skin sensitiser, sub-category 1A.

Result : Probability or evidence of high skin sensitisation rate in hu-

mans

according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Germ cell mutagenicity - : Tests on bacterial or mammalian cell cultures did not show

Assessment mutagenic effects.

Carcinogenicity

Product:

Remarks : No data available

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Carcinogenicity - Assess-

ment

: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

: Remarks: No data available

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Reproductive toxicity - As-

: - Fertility -

sessment

No toxicity to reproduction

- Teratogenicity -

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



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

No effects on or via lactation

STOT - single exposure

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Components:

Distillates (petroleum), hydrotreated light naphthenic:

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:

Distillates (petroleum), hydrotreated light naphthenic:

May be fatal if swallowed and enters airways.

Further information

Product:

Remarks : Information given is based on data on the components and

the toxicology of similar products.

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



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Components:

(4-nonylphenoxy)acetic acid:

Remarks : Ingestion causes burns of the upper digestive and respiratory

tracts.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

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:

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

Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (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/I

Exposure time: 72 h



according to GB/T 16483 and GB/T 17519



OKS 403

Version Date of last issue: 2022-03-14 Revision Date:

2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22 2.1

(4-nonylphenoxy)acetic acid:

Ecotoxicology Assessment

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability Remarks: No data available

Physico-chemical removabil- : Remarks: No data available

Components:

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

Biodegradability aerobic

> Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 8 % Exposure time: 28 d

Method: OECD Test Guideline 301D

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 environ-

mental compartments

: Remarks: No data available

Other adverse effects

Product:



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



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

Additional ecological infor-

mation

: Harmful to aquatic life with long lasting effects.

Components:

Distillates (petroleum), hydrotreated light naphthenic:

Results of PBT and vPvB

assessment

: Non-classified vPvB substance Non-classified PBT substance

(4-nonylphenoxy)acetic acid:

Additional ecological infor-

mation

Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

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

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations



according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

GB 6944/12268

Not regulated as a dangerous good

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

Hazardous Chemicals for Priority Management under : Not applicable

SAWS

China Severely Restricted Toxic Chemicals for Import : Not applicable

and Export

Catalogue of Hazardous Chemicals : 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)

ACGIH / TWA : 8-hour, 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 con-

according to GB/T 16483 and GB/T 17519



OKS 403

Version Revision Date: Date of last issue: 2022-03-14

2.1 2022-04-20 Date of first issue: 2013-12-16 Print Date: 2022-04-22

centration; 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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