according to GB/T 16483 and GB/T 17519



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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 245

Chemical nature : Mineral oil.

Thickening agent

Manufacturer or supplier's details

Company : OKS Spezialschmierstoffe GmbH

Ganghoferstr. 47

D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599

mcm@oks-germany.com

E-mail address of person

responsible for the SDS

National contact

.

Emergency telephone number:

+86 512 8090 3042 (NCEC, 24 hrs) +86 532 8388 9090 (NRCC)

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 : paste
Colour : red brown
Odour : characteristic

Toxic to aquatic life.

GHS Classification

Acute aquatic toxicity : Category 2

GHS label elements

Hazard pictograms : None

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



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Signal word : None

Hazard statements : H401 Toxic to aquatic life.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Not classified based on available information.

Environmental hazards

Toxic to aquatic life.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|------------|-----------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | >= 30 -< 50 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 64742-65-0 | >= 30 -< 50 |
| Kaolin, calcined | 92704-41-1 | >= 1 -< 10 |
| copper | 7440-50-8 | >= 1 -< 2.5 |

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 : Remove contaminated clothing. If irritation develops, get med-

ical attention.

In case of contact, immediately flush skin with plenty of water.



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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

No information available.

None known.

Notes to physician : No information available.

5. FIREFIGHTING MEASURES

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

bon dioxide.

Unsuitable extinguishing

media

High volume water jet

Specific hazards during fire-

fighting

Fire may cause evolution of:

Carbon oxides Metal oxides

Nitrogen oxides (NOx)

Specific extinguishing me-

thods

Standard procedure for chemical fires.

Special protective equipment:

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-contained

breathing apparatus.

Exposure to decomposition products may be a hazard to

health.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective 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



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(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.

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

plication area.

Wash hands and face before breaks and immediately after

handling the product.

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 | Control parameters / Permissible | Basis |
|-----------------------------------|------------|------------------------|----------------------------------|-------|
| | | exposure) | concentration | |
| Distillates (petroleum), hydro- | 64742-54-7 | TWA (Inhal- | 5 mg/m3 | ACGIH |
| treated heavy paraffinic | | able fraction) | | |
| Distillates (petroleum), solvent- | 64742-65-0 | TWA (Inhal- | 5 mg/m3 | ACGIH |

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| dewaxed heavy paraffinic | | able fraction) | | |
|--------------------------|-----------|----------------|-----------|----------|
| copper | 7440-50-8 | PC-TWA | 1 mg/m3 | GBZ 2.1- |
| | | (Dust) | (Copper) | 2007 |
| | | PC-TWA | 0.2 mg/m3 | GBZ 2.1- |
| | | (Fumes) | (Copper) | 2007 |
| | | TWA (Dust | 1 mg/m3 | ACGIH |
| | | and mist) | (Copper) | |
| | | TWA | 0.2 mg/m3 | ACGIH |
| | | (Fumes) | (Copper) | |

Engineering measures : Maintain air concentrations below occupational exposure

standards.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Filter type A-P

Eye/face protection : Tightly fitting safety goggles

Hand protection

Material : Nitrile rubber Protective index : Class 1

Remarks : For prolonged or repeated contact use protective gloves. The

selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove

and therefore has to be measured for each case.

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 : paste

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



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Colour : red brown

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

Melting point/range : No data available

: Not applicable

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

Relative vapour density : No data available

Density : 0.93 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

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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 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 : Remarks: This information is not available.

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

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

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

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5.53 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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



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Method: OECD Test Guideline 402

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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

Method: OECD Test Guideline 401

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

Method: OECD Test Guideline 402

Kaolin, calcined:

Acute inhalation toxicity : Assessment: The substance or mixture is classified as specific

target organ toxicant, single exposure, category 3 with respira-

tory tract irritation.

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

Kaolin, calcined:

Result : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Product:

Remarks : This information is not available.



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Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Species : Rabbit

Result : No eye irritation Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species : Rabbit

Result : No eye irritation Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

Kaolin, calcined:

Result : Irritating to eyes.

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406

Result : Does not cause skin sensitisation.

GLP : yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

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Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Genotoxicity in vitro : Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo : Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Product:

Remarks : No data available

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Carcinogenicity - Assess- : Not classifiable as a human carcinogen.

ment

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Species : Mouse Application Route : Dermal

Method : OECD Test Guideline 451

Result : negative

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal develop-

ment

: Remarks: No data available

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Reproductive toxicity - As-

sessment

: No toxicity to reproduction

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

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Effects on foetal develop-

ment

Species: Rat

Application Route: Dermal

General Toxicity Maternal: NOAEL: 30 mg/kg body weight Developmental Toxicity: NOAEL: 30 mg/kg body weight

Method: OECD Test Guideline 414

STOT - single exposure

Components:

Kaolin, calcined:

Exposure routes : Inhalation

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 3 with respiratory tract

irritation.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Aspiration toxicity

Product:

This information is not available.

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

No aspiration toxicity classification

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

No aspiration toxicity classification

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



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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

Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: Immobilization

Method: OECD Test Guideline 202

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d
Test Type: semi-static test

Method: OECD Test Guideline 211

GLP: yes

Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

GLP: yes

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

iod. OECD Test Guideline 2

according to GB/T 16483 and GB/T 17519



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Toxicity to algae NOEC (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 10 mg/l

Exposure time: 21 d

copper:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0094 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.044 mg/l

Exposure time: 48 h

M-Factor (Acute aquatic tox- :

icity)

10

M-Factor (Chronic aquatic

toxicity)

1

Ecotoxicology Assessment

Acute aquatic toxicity Very toxic to aquatic life.

This product has no known ecotoxicological effects. Chronic aquatic toxicity

Persistence and degradability

Product:

Biodegradability Remarks: No data available

Physico-chemical removabili- : Remarks: No data available

ty

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Biodegradability aerobic

> Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 3 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

according to GB/T 16483 and GB/T 17519



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Distillates (petroleum), solvent-dewaxed heavy paraffinic:

Biodegradability aerobic

> Inoculum: activated sludge Result: Not rapidly biodegradable

Biodegradation: 31 % Exposure time: 28 d

Method: OECD Test Guideline 301B

GLP: yes

copper:

Remarks: The methods for determining biodegradability are Biodegradability

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).

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Partition coefficient: n-

octanol/water

: log Pow: > 2

Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environ-

mental compartments

: Remarks: No data available

Other adverse effects

Product:

Additional ecological informa: No information on ecology is available.

tion

Components:

Distillates (petroleum), hydrotreated heavy paraffinic:

Results of PBT and vPvB : Non-classified vPvB substance Non-classified PBT substance

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assessment

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

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

Catalogue of Hazardous Chemicals : Not applicable



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Identification of Major Hazard Installations for Danger- :

Not applicable

ous Chemicals (GB 18218)

Hazardous Chemicals for Priority Management under

Not applicable

SAWS

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 : Not applicable

and Export

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)

GBZ 2.1-2007 : Occupational exposure limits for hazardous agents in the

workplace - Chemical hazardous agents.

ACGIH / TWA : 8-hour, time-weighted average

GBZ 2.1-2007 / PC-TWA : Permissible concentration - time weighted average

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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



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tional 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; 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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