

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 111

Chemical nature : Active agent with propellant and solvent.  
Wax

#### 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 spray

Restrictions on use : Restricted to professional users.

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

**Appearance** : aerosol  
**Colour** : black  
**Odour** : characteristic

Extremely flammable aerosol. Pressurised container: May burst if heated. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

#### GHS Classification

Aerosols : Category 1

Specific target organ toxicity - : Category 3 (Narcotic effects)  
single exposure

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

Aspiration hazard : Category 1

Long-term (chronic) aquatic hazard : Category 2

### GHS label elements

Hazard pictograms :    

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing mist.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.

### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P331 Do NOT induce vomiting.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### Disposal:

P501 Dispose of contents/containers according the local government requirements.

### Physical and chemical hazards

Extremely flammable aerosol.Pressurised container: May burst if heated.

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

### Health hazards

May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.

### Environmental hazards

Toxic 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

### Components

| Chemical name                           | CAS-No.    | Concentration (% w/w) |
|---|------------|-----------------------|
| Naphtha (petroleum), hydrotreated light | 64742-49-0 | $\geq 30$ -< 50       |
| Butane                                  | 106-97-8   | $\geq 20$ -< 30       |
| molybdenum disulphide                   | 1317-33-5  | $\geq 10$ -< 20       |
| propane                                 | 74-98-6    | $\geq 1$ -< 10        |
| Isobutane                               | 75-28-5    | $\geq 1$ -< 10        |

## 4. FIRST AID MEASURES

- If inhaled : Call a physician or poison control centre immediately.  
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.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Seek medical advice.
- If swallowed : Move the victim to fresh air.  
If accidentally swallowed obtain immediate medical attention.

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

Most important symptoms and effects, both acute and delayed : Central nervous system depression  
Can be absorbed through skin.  
Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.  
Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness  
Drowsiness  
Headache  
Nausea  
Tiredness  
Skin contact may provoke the following symptoms:  
Erythema  
Aspiration may cause pulmonary oedema and pneumonitis.

Notes to physician : Treat symptomatically.

## 5. FIREFIGHTING MEASURES

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Fire Hazard  
Do not let product enter drains.  
Contains gas under pressure; may explode if heated.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Hazardous combustion products : Carbon oxides  
Sulphur oxides  
Metal oxides

Specific extinguishing methods : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Cool containers/tanks with water spray.

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 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

### 6. ACCIDENTAL RELEASE MEASURES

- |   |   |   |
|---|---|---|
| Personal precautions,<br>protective equipment and<br>emergency procedures | : | Evacuate personnel to safe areas.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Do not breathe vapours or spray mist.<br>Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.<br>Refer to protective measures listed in sections 7 and 8.  |
| Environmental precautions   | : | Do not allow contact with soil, surface or ground water.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform<br>respective authorities.   |
| Methods and materials for<br>containment and cleaning up                  | : | Contain spillage, and then collect with non-combustible<br>absorbent material, (e.g. sand, earth, diatomaceous earth,<br>vermiculite) and place in container for disposal according to<br>local / national regulations (see section 13).<br>Keep in suitable, closed containers for disposal.<br>Non-sparking tools should be used. |
| Prevention of secondary<br>hazards  | : | Only qualified personnel equipped with suitable protective<br>equipment may intervene.  |

### 7. HANDLING AND STORAGE

#### Handling

- |                         |   |  |
|-------------------------|---|--|
| Advice on safe handling | : | Do not use in areas without adequate ventilation.<br>Do not breathe vapours or spray mist.<br>In case of insufficient ventilation, wear suitable respiratory<br>equipment.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Keep away from fire, sparks and heated surfaces.<br>Smoking, eating and drinking should be prohibited in the<br>application area.<br>Wash hands and face before breaks and immediately after<br>handling the product.<br>Do not get in eyes or mouth or on skin.<br>Do not get on skin or clothing.<br>Do not ingest.<br>Do not use sparking tools.<br>These safety instructions also apply to empty packaging which<br>may still contain product residues.<br>Pressurized container: protect from sunlight and do not<br>expose to temperatures exceeding 50 °C. Do not pierce or<br>burn, even after use. |
|-------------------------|---|--|

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

Avoidance of contact : Oxidizing agents

### Storage

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
Store in accordance with the particular national regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components            | CAS-No.   | Value type<br>(Form of exposure)       | Control parameters /<br>Permissible concentration | Basis                  |
|-----------------------|-----------|--|---|------------------------|
| Butane                | 106-97-8  | STEL                                   | 1,000 ppm   | ACGIH<br>(2018-03-20)  |
| molybdenum disulphide | 1317-33-5 | PC-TWA                                 | 6 mg/m <sup>3</sup><br>(Molybdenum)               | CN OEL<br>(2019-08-27) |
|                       |           | TWA<br>(Inhalable particulate matter)  | 10 mg/m <sup>3</sup><br>(Molybdenum)              | ACGIH<br>(2019-03-05)  |
|                       |           | TWA<br>(Respirable particulate matter) | 3 mg/m <sup>3</sup><br>(Molybdenum)               | ACGIH<br>(2019-03-05)  |
| Isobutane             | 75-28-5   | STEL                                   | 1,000 ppm   | ACGIH<br>(2018-03-20)  |

**Engineering measures** : Use only in an area equipped with explosion proof exhaust ventilation.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).

### 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.  
Short term only

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

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

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

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 : aerosol

Colour : black

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 : -161 °C  
(1,013 hPa)

Flash point : -60 °C

Method: Abel-Pensky

Evaporation rate : No data available

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

|  |   |   |
|--|---|---|
| Flammability (solid, gas)                        | : | Extremely flammable aerosol.  |
| Self-ignition                                    | : | No data available   |
| Upper explosion limit / Upper flammability limit | : | 10.9 %(V)   |
| Lower explosion limit / Lower flammability limit | : | 0.9 %(V)  |
| Vapour pressure                                  | : | 3,800 hPa (20 °C)   |
| Relative vapour density                          | : | No data available   |
| Relative density                                 | : | 0.77 (20 °C)<br>Reference substance: Water<br>The value is calculated |
| Density  | : | 0.77 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                             | : | < 20.5 mm <sup>2</sup> /s ( 40 °C)                                    |
| Explosive properties                             | : | Not explosive   |
| Oxidizing properties                             | : | No data available   |
| Sublimation point                                | : | No data available   |
| Metal corrosion rate                             | : | Not corrosive to metals   |

## 10. STABILITY AND REACTIVITY

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

|                                    |   |  |
|------------------------------------|---|--|
| 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                | : | Heat, flames and sparks.<br>Strong sunlight for prolonged periods.<br>Risk of receptacle bursting. |
| Incompatible materials             | : | Oxidizing agents   |
| Hazardous decomposition products   | : | No decomposition if stored and applied as directed.  |

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

Remarks: Effects due to ingestion may include:

Symptoms: Central nervous system depression

Acute inhalation toxicity : Remarks: Respiration of solvent vapour may cause dizziness.

Symptoms: Inhalation may provoke the following symptoms:  
Respiratory disorder, Dizziness, Drowsiness, Vomiting,  
Fatigue, Vertigo, Central nervous system depression

Acute dermal toxicity : Remarks: Prolonged or repeated skin contact with liquid may  
cause defatting resulting in drying, redness and possible  
blistering.

Symptoms: Skin disorders

#### Components:

**Naphtha (petroleum), hydrotreated light:**

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

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

### **Butane:**

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

### **molybdenum disulphide:**

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

Acute dermal toxicity : LD50 (Rat): > 16,000 mg/kg

### **Isobutane:**

Acute inhalation toxicity : LC50 (Rat): 658 mg/l  
Exposure time: 4 h  
Test atmosphere: gas

## **Skin corrosion/irritation**

### **Product:**

Remarks : This information is not available.

### **Components:**

#### **molybdenum disulphide:**

Assessment : No skin irritation  
Result : No skin irritation

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

### **Product:**

Remarks : Contact with eyes may cause irritation.

### **Components:**

#### **molybdenum disulphide:**

Result : No eye irritation  
Assessment : No eye irritation

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

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### Respiratory or skin sensitisation

#### Product:

Remarks : This information is not available.

#### Components:

##### **molybdenum disulphide:**

Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Components:

##### **molybdenum disulphide:**

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

### Carcinogenicity

#### Product:

Remarks : No data available

#### Components:

##### **molybdenum disulphide:**

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

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal : Remarks: No data available

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

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development

### STOT - single exposure

#### Components:

##### **Naphtha (petroleum), hydrotreated light:**

Assessment : May cause drowsiness or dizziness.

##### **molybdenum disulphide:**

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

### STOT - repeated exposure

#### Components:

##### **molybdenum disulphide:**

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:

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

#### Components:

##### **Naphtha (petroleum), hydrotreated light:**

May be fatal if swallowed and enters airways.

### Further information

#### Product:

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

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

### Components:

#### **molybdenum disulphide:**

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

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Product:

Toxicity to fish : Remarks: Toxic 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:

#### **Naphtha (petroleum), hydrotreated light:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **molybdenum disulphide:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

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

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

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

### Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **Naphtha (petroleum), hydrotreated light:**

Biodegradability : Result: Readily biodegradable.

### 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:

##### **Naphtha (petroleum), hydrotreated light:**

Bioaccumulation : Remarks: Not applicable

Partition coefficient: n-octanol/water : Remarks: No data available

##### **Butane:**

Partition coefficient: n-octanol/water : log Pow: 2.89  
Method: OECD Test Guideline 107

##### **propane:**

Partition coefficient: n-octanol/water : log Pow: 2.36

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

### Isobutane:

Partition coefficient: n-octanol/water : log Pow: 2.88  
Method: OECD Test Guideline 107

### Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### Other adverse effects

#### Product:

Additional ecological information : Toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : 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.  
Offer empty spray cans to an established disposal company.  
Pressurized container: Do not pierce or burn, even after use.

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1

#### IATA-DGR

UN/ID No. : UN 1950  
Proper shipping name : Aerosols, flammable  
Class : 2.1

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

Packing group : Not assigned by regulation  
Labels : Flammable Gas  
Packing instruction (cargo aircraft) : 203  
Packing instruction (passenger aircraft) : 203

### IMDG-Code

UN number : UN 1950  
Proper shipping name : AEROSOLS  
(Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
Marine pollutant : yes

### 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 : UN 1950  
Proper shipping name : AEROSOLS  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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

| Product name |  | Status | Reference number |
|--------------|--|--------|------------------|
| OKS 111      |  | Listed | 2828             |

| List of ingredients | CAS-No. | Status | Reference number |
|---------------------|---------|--------|------------------|
|---------------------|---------|--------|------------------|

# SAFETY DATA SHEET

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



## OKS 111

Version 1.6      Revision Date: 2022-12-02      Date of last issue: 2021-03-25  
Date of first issue: 2014-03-20      Print Date: 2022-12-02

|           |          |        |      |
|-----------|----------|--------|------|
| Butane    | 106-97-8 | Listed | 2778 |
| propane   | 74-98-6  | Listed | 139  |
| Isobutane | 75-28-5  | Listed | 2707 |

Identification of Major Hazard Installations for Hazardous Chemicals (GB 18218)

Category      Threshold quantity  
Aerosols      150 t

Hazardous Chemicals for Priority Management under SAWS : Not applicable

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

Catalogue of Highly Toxic Chemicals : Not applicable

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

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

### International Regulations

Montreal Protocol : Not applicable

Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

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

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

## 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  
ACGIH / STEL : Short-term exposure limit

# SAFETY DATA SHEET

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



## OKS 111

|         |                |   |
|---------|----------------|---|
| Version | Revision Date: | Date of last issue: 2021-03-25                            |
| 1.6     | 2022-12-02     | Date of first issue: 2014-03-20    Print Date: 2022-12-02 |

CN OEL / PC-TWA : Permissible concentration - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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according to GB/T 16483 and GB/T 17519  
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