

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : OKS 2711  
Chemical nature : Active substance with propellant

#### Manufacturer or supplier's details

Company name of supplier : OKS Spezialschmierstoffe GmbH  
Ganghoferstr. 47  
D-82216 Maisach-Gernlinden  
Tel.: +49 8142 3051 500  
Fax.: +49 8142 3051 599  
info@oks-germany.com

E-mail address of person responsible for the SDS : mcm@oks-germany.com  
Material Compliance Management

National contact :

Emergency telephone number : +86 532 8388 9090 (NRCC, only for hazardous chemicals)  
+86 21 69225521

#### Recommended use of the chemical and restrictions on use

Recommended use : Auxiliary  
Restrictions on use : Restricted to professional users.

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                  |
|------------|------------------|
| Appearance | : aerosol        |
| Colour     | : colourless     |
| Odour      | : characteristic |

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

#### GHS Classification

Aerosols : Category 1

#### GHS label elements


# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4    Revision Date: 2022-06-20    Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17    Print Date: 2022-06-20

- Hazard pictograms : 
- Signal word : Danger
- Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.
- 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.  
**Storage:**  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### Physical and chemical hazards

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

### Health hazards

Not classified based on available information.

### 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) |
|---------------|----------|-----------------------|
| Butane        | 106-97-8 | >= 70 -< 90           |
| propane       | 74-98-6  | >= 20 -< 30           |
| Isobutane     | 75-28-5  | >= 1 -< 10            |

## 4. FIRST AID MEASURES

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

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

- 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 : Remove contaminated clothing. If irritation develops, get medical attention.  
Wash off with soap and plenty of water.  
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.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.
- Most important symptoms and effects, both acute and delayed : Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness  
Drowsiness  
Headache  
Nausea  
Tiredness
- Notes to physician : Treat symptomatically.

## 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : ABC powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : 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

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

- 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.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
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).  
Keep in suitable, closed containers for disposal.  
Non-sparking tools should be used.
- Prevention of secondary hazards : Only qualified personnel equipped with suitable protective equipment may intervene.

## 7. HANDLING AND STORAGE

### Handling

- Advice on safe handling : Do not use in areas without adequate ventilation.  
Do not breathe vapours or spray mist.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Keep away from fire, sparks and heated surfaces.  
Smoking, eating and drinking should be prohibited in the ap-

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4    Revision Date: 2022-06-20    Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17    Print Date: 2022-06-20

plication area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not ingest.  
Do not use sparking tools.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

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 (Form of exposure) | Control parameters / Permissible concentration | Basis              |
|------------|----------|-------------------------------|--|--------------------|
| Butane     | 106-97-8 | STEL                          | 1,000 ppm                                      | ACGIH (2018-03-20) |
| Isobutane  | 75-28-5  | STEL                          | 1,000 ppm                                      | ACGIH (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.

Filter type : Recommended Filter type:  
Organic gas and low boiling vapour type

Eye/face protection : Safety glasses with side-shields

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4    Revision Date: 2022-06-20    Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17    Print Date: 2022-06-20

- Hand protection
- 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 specific work-place.
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : aerosol
- Colour : colourless
- 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 : 0 °C  
Method: Abel-Pensky

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

---

|  |   |  |
|--|---|--|
| Evaporation rate                                 | : | No data available  |
| Flammability (solid, gas)                        | : | Extremely flammable aerosol.   |
| Self-ignition                                    | : | No data available  |
| Upper explosion limit / Upper flammability limit | : | 9.4 %(V)   |
| Lower explosion limit / Lower flammability limit | : | 1.4 %(V)   |
| Vapour pressure                                  | : | 8,327 hPa (20 °C)  |
| Relative vapour density                          | : | No data available  |
| Relative density                                 | : | 0.561 (20 °C)<br>Reference substance: Water<br>The value is calculated |
| Density  | : | 0.56 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  |

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

### 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 : Heat, flames and sparks.
- Incompatible materials : Oxidizing agents
- 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 : Symptoms: Inhalation may provoke the following symptoms; Respiratory disorder
- Acute dermal toxicity : Remarks: This information is not available.

##### Components:

###### **Butane:**

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

###### **Isobutane:**

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



# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

---

### Skin corrosion/irritation

**Product:**

Remarks : This information is not available.

### Serious eye damage/eye irritation

**Product:**

Remarks : Contact with eyes may cause irritation.

### Respiratory or skin sensitisation

**Product:**

Remarks : This information is not available.

### Germ cell mutagenicity

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Carcinogenicity

**Product:**

Remarks : No data available

### Reproductive toxicity

**Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### Repeated dose toxicity

**Product:**

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

---

Remarks : This information is not available.

### Aspiration toxicity

**Product:**

This information is not available.

### Further information

**Product:**

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

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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/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

### Persistence and degradability

**Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4    Revision Date: 2022-06-20    Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17    Print Date: 2022-06-20

### 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:

##### **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

##### **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 : No information on ecology is available.

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## 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.

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4    Revision Date: 2022-06-20    Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17    Print Date: 2022-06-20

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  
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  
  
Class : 2.1  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U  
Marine pollutant : no

### 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

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

### 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

Hazardous Chemicals for Priority Management under SAWS : Not applicable

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

Catalogue of Hazardous Chemicals : Listed

| Product name | Status | Reference number |
|--------------|--------|------------------|
| OKS 2711     | Listed | 2828             |

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

| No. / Code | Chemical name / Category | Threshold quantity |
|------------|--------------------------|--------------------|
| W3         | Aerosols                 | 150 t              |

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

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

## 16. OTHER INFORMATION

# SAFETY DATA SHEET

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



## OKS 2711

Version 1.4      Revision Date: 2022-06-20      Date of last issue: 2018-07-30  
Date of first issue: 2014-07-17      Print Date: 2022-06-20

Date format : yyyy/mm/dd

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / STEL : Short-term exposure limit

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; TECl - 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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# SAFETY DATA SHEET

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



## OKS 2711

|         |                |  |
|---------|----------------|--|
| Version | Revision Date: | Date of last issue: 2018-07-30                         |
| 1.4     | 2022-06-20     | Date of first issue: 2014-07-17 Print Date: 2022-06-20 |

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from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.