

**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

**1. Identification of the substance/mixture and of the company/undertaking**

**Product information**

Product name : OKS 1111

Use of the Substance/Mixture : Lubricant

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

E-mail address : mcm@oks-germany.com  
Material Compliance Management

National contact :

Emergency telephone number : +7 495 628 1687  
+49 8142 3051 517

**2. Hazards identification**

**GHS Classification**

: Aerosols, Category 1  
Specific target organ toxicity - single exposure, Category 3, Central nervous system  
Aspiration hazard, Category 1  
Long-term (chronic) aquatic hazard, Category 3

**GHS-Labeling**

Symbol(s) :   

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.  
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

P251 Do not pierce or burn, even after use.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

**Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**3. Composition/information on ingredients**

Chemical nature : Active agent with propellant and solvent.

**Hazardous components**

Chemical name	CAS-No.	Concentration[%]
Butane	106-97-8	50 - 70
propane	74-98-6	20 - 30
Naphtha (petroleum), hydrotreated light	64742-49-0	10 - 20
Isobutane	75-28-5	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. 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 accidentally swallowed obtain immediate medical attention.



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

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

**Notes to physician**

- Symptoms : Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness  
Drowsiness  
Headache  
Nausea  
Tiredness
- Aspiration may cause pulmonary oedema and pneumonitis.
- Risks : Central nervous system depression  
Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.
- Treatment : Treat symptomatically.

---

**5. Firefighting measures**

- Suitable extinguishing media : ABC powder
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon oxides  
Metal oxides
- 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.
- 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.
- Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Cool containers/tanks with water spray.



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

---

**6. Accidental release measures**

- Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe vapours or spray mist.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for 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.
- Additional advice : 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 application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not 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.



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

**Storage**

Requirements for storage areas and containers : 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	Control parameters	Update	Basis
Butane	106-97-8	MPC-TWA	300 mg/m3	2018-04-23	RU OEL
Butane	106-97-8	MPC-STEL	900 mg/m3	2018-04-23	RU OEL
propane	74-98-6	MPC-TWA	300 mg/m3	2018-04-23	RU OEL
propane	74-98-6	MPC-STEL	900 mg/m3	2018-04-23	RU OEL
Isobutane	75-28-5	MPC-TWA	300 mg/m3	2018-04-23	RU OEL
Isobutane	75-28-5	MPC-STEL	900 mg/m3	2018-04-23	RU OEL

**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 A-P

Hand protection : butyl-rubber



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

Manufacturer, importer, supplier: Class 1

Break through time: > 10 min

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.

- Eye protection : Safety glasses with side-shields
- Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.
- 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.

---

**9. Physical and chemical properties**

**Appearance**

- Physical state : aerosol
- Colour : colourless
- Odour : hydrocarbon-like

**Safety data**

- Flash point : -20 °C  
Method: Abel-Pensky
- Ignition temperature : > 200 °C
- Lower explosion limit : 0,6 %(V)
- Upper explosion limit : 15 %(V)
- Flammability (solid, gas) : Extremely flammable aerosol.
- Oxidizing properties : Note: No data available
- Auto-ignition temperature : Note: not auto-flammable
- pH : Note: Not applicable  
substance/mixture is non-soluble (in water)



## OKS 1111

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

Melting point/range	:	Note: No data available
Initial boiling point and boiling range	:	< -20 °C at 1.013,00 hPa
Sublimation point	:	Note: No data available
Vapour pressure	:	4.920,00 hPa at 20 °C
Density	:	0,60 g/cm <sup>3</sup> at 20 °C
Bulk density	:	Note: No data available
Water solubility	:	Note: insoluble
Partition coefficient: n-octanol/water	:	Note: No data available
Solubility in other solvents	:	Note: No data available
Viscosity, dynamic	:	Note: No data available
Viscosity, kinematic	:	< 20,5 mm <sup>2</sup> /s at 40 °C
Relative vapour density	:	Note: No data available
Evaporation rate	:	Note: No data available

### 10. Stability and reactivity

Conditions to avoid	:	Heat, flames and sparks.
Materials to avoid	:	Oxidizing agents
Hazardous decomposition products	:	>150 °C small quantities of formaldehyde may be formed.
Thermal decomposition	:	Note: No data available
Hazardous reactions	:	No dangerous reaction known under conditions of normal use.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Acute oral toxicity	:	Remarks: Effects due to ingestion may include:
---------------------	---	--



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

Acute inhalation toxicity : Symptoms: Central nervous system depression  
: 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: This information is not available.

**Skin corrosion/irritation**

Skin irritation : Remarks: This information is not available.

**Serious eye damage/eye irritation**

Eye irritation : Remarks: Contact with eyes may cause irritation.

**Respiratory or skin sensitisation**

Sensitisation : Remarks: This information is not available.

**Germ cell mutagenicity**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Target Organ Systemic Toxicant - Single exposure**

: Exposure routes: Inhalation  
Remarks: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**Target Organ Systemic Toxicant - Repeated exposure**

: This information is not available.

**Aspiration hazard**

Aspiration toxicity : May be fatal if swallowed and enters airways.

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

---

**12. Ecological information**

**Ecotoxicity effects**





**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

- 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 : Remarks:  
No data available
- Toxicity to bacteria : Remarks:  
No data available

**Elimination information (persistence and degradability)**

- 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 : Remarks:  
No data available
- Distribution among environmental compartments : Remarks:  
No data available
- Biodegradability : Remarks:  
No data available
- Physico-chemical removability : Remarks:  
No data available

**Further information on ecology**

- Naphtha (petroleum), hydrotreated light :  
Long-term (chronic) aquatic hazard  
Naphtha (petroleum), hydrotreated light : Toxic to aquatic life with long lasting effects.  
Naphtha (petroleum), hydrotreated light :  
Naphtha (petroleum), hydrotreated light :



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

hydrotreated light Naphtha (petroleum), hydrotreated light  
Additional ecological information : Harmful to aquatic life with long lasting effects.

**13. Disposal considerations**

Product : 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**

**ADR**

UN number : 1950

Description of the goods : AEROSOLS

Class : 2

Classification Code : 5F

Labels : 2.1

Environmentally hazardous : no

**IATA**

UN number : 1950

Description of the goods : Aerosols, flammable

Class : 2.1

Labels : 2.1

Packing instruction (cargo aircraft) : 203



**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

Packing instruction : 203  
(passenger aircraft)

Packing instruction : Y203  
(passenger aircraft)

Environmentally hazardous : no

**IMDG**

UN number : 1950

Description of the goods : AEROSOLS

Class : 2.1

Labels : 2.1

EmS Number : F-D, S-U

Marine pollutant : no

**RID**

UN number : 1950

Description of the goods : AEROSOLS

Class : 2

Classification Code : 5F

Hazard Identification : 23  
Number

Labels : 2.1

Environmentally hazardous : no

Other information : No special precautions required.



---

**OKS 1111**

Version 2.2

Revision Date 07.12.2021

Print Date 07.12.2021

---

---

**15. Regulatory information**

---

**16. Other information**

**Further information**

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily 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.

---