



OKS 2711

Version 1.3

Revision Date 30.07.2018

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

Product information

Product name : OKS 2711

Use of the Substance/Mixture : Auxiliary

Company : OKS Spezialschmierstoffe GmbH
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+49 8142 3051 517

2. Hazards identification

GHS Classification

: Aerosols, Category 1

GHS-Labeling

Symbol(s) :



Signal word : Danger

Hazard statements : H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.

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.
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.

3. Composition/information on ingredients

Chemical nature : Active substance with propellant



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Hazardous components

Chemical name	CAS-No.	Concentration[%]
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 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 easy to do, remove contact lens, if worn.
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.

Notes to physician

- Symptoms : Inhalation may provoke the following symptoms:
Unconsciousness
Dizziness
Drowsiness
Headache
Nausea
Tiredness
- Treatment : Treat symptomatically.



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5. Firefighting measures

- Suitable extinguishing media : ABC powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Fire may cause evolution of:
Carbon oxides
- : 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.
In the case of respirable dust and/or fumes, use self-contained breathing apparatus.
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.

6. Accidental release measures

- Personal precautions : 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 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.



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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 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.

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	2011-07-12	RU OEL
Butane	106-97-8	MPC-STEL	900 mg/m3	2011-07-12	RU OEL



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propane	74-98-6	MPC-TWA	300 mg/m3	2013-09-16	RU OEL
propane	74-98-6	MPC-STEL	900 mg/m3	2013-09-16	RU OEL
Isobutane	75-28-5	MPC-TWA	300 mg/m3	2013-09-16	RU OEL
Isobutane	75-28-5	MPC-STEL	900 mg/m3	2013-09-16	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.
 Recommended Filter type:

: Organic gas and low boiling vapour type

Hand protection : Nitrile rubber
 Manufacturer, importer, supplier: Class 1
 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.

Eye protection : Safety glasses with side-shields conforming to EN166

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.



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9. Physical and chemical properties

Appearance

Physical state : aerosol
Colour : colourless
Odour : characteristic

Safety data

Flash point : < 0 °C
Method: Abel-Pensky
Ignition temperature : Remarks: No data available
Lower explosion limit : 1,4 %(V)
Upper explosion limit : 9,4 %(V)
Flammability (solid, gas) : Extremely flammable aerosol.
Oxidizing properties : Note: No data available
Auto-ignition temperature : Note: No data available
pH : Note: Not applicable
Melting point/range : Note: No data available
Boiling point/boiling range : -161 °C
at 1.013,00 hPa
Sublimation point : Note: No data available
Vapour pressure : 8.327,00 hPa
at 20 °C
Density : 0,56 g/cm³
at 20 °C
Bulk density : Note: No data available
Water solubility : Note: insoluble
Partition coefficient: n-octanol/water : Note: No data available



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Solubility in other solvents	: Note: No data available
Viscosity, dynamic	: Note: No data available
Viscosity, kinematic	: < 20,5 mm ² /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	: No decomposition if stored and applied as directed.
Thermal decomposition	: Note: No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Acute inhalation toxicity

Butane : LC50: 658 mg/l
Exposure time: 4 h
Species: Rat

Isobutane : LC50: 658 mg/l
Exposure time: 4 h
Species: Rat

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



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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 - Repeated exposure

: This information is not available.

Target Organ Systemic Toxicant - Repeated exposure

Aspiration hazard

Aspiration toxicity : This information is not available.

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

12. Ecological information

Ecotoxicity effects

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 bacteria : Remarks:
No data available

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:



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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

Additional ecological information : No information on ecology is available.

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



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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
Packing instruction (passenger aircraft) : 203
Packing instruction (passenger aircraft) : Y203
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
Other information : No special precautions required.



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15. Regulatory information

16. Other information

Further information

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