

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 27.08.2010

Revision: 16.10.2007

1 Identification of substance:

- **Trade name:** OKS 111
- **Application of the substance / the preparation** Lubricant
- **Manufacturer/Supplier:**
OKS Spezialechmierstoffe GmbH
Triebstrasse 9
D-80993 München
Phone (+49)-89-149892-0
Fax. (+49) 089-1419219
E-Mail: mcm@oks-germany.com
- **Emergency information:** (+49)89-149892-17

2 Hazards identification

- **Hazard designation:**



Xi Irritant
F+ Extremely flammable
N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment**

- R 12 Extremely flammable.
R 38 Irritating to skin.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67 Vapours may cause drowsiness and dizziness.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material.
Buildup of explosive mixtures possible without sufficient ventilation.
Keep out of the reach of children

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**

- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 64742-49-0	naphtha (petroleum), hydrotreated light	25-50%
EINECS: 265-151-9	Xn, Xi, F, N; R 11-38-51/53-65-67	
CAS: 74-98-6	propane liquefied	10-25%
EINECS: 200-827-9	F+; R 12	
CAS: 106-97-8	butane, pure	10-25%
EINECS: 203-448-7	F+; R 12	

4 First aid measures

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Wash with water and soap and rinse thoroughly.

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- **After eye contact**
Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or flue gases:**
Can be released in case of fire
Carbon monoxide (CO) and carbon dioxide (CO₂)
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Cool endangered containers with water spray jet.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Beware: Container 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.
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in cool location.
Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from heat and direct sunlight.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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· **Components with critical values that require monitoring at the workplace:**

74-98-6 propane liquefied

OES Asphyxiant

106-97-8 butane, pure

OES Short-term value: 1810 mg/m³, 750 ppmLong-term value: 1450 mg/m³, 600 ppm

8002-74-2 Paraffin waxes and Hydrocarbon waxes

OES Short-term value: 6 mg/m³Long-term value: 2 mg/m³

· **Additional information:**

The currently valid safety information database was used to compile this data sheet.

· **Personal protective equipment**

· **General protective and hygienic measures**

Do not eat, drink or smoke while working.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

· **Breathing equipment:** Not necessary if room is well-ventilated.

· **Protection of hands:** Protective gloves.

· **Material of gloves:** Nitrile rubber, NBR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed safety glasses.

9 Physical and chemical properties:

· **General Information**

Form:	Aerosol
Colour:	Black
Smell:	Characteristic

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Not applicable, as aerosol

· **Flash point:** Not applicable, as aerosol

· **Self-inflammability:** Product is not self igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

· **Critical values for explosion:**

Lower: 1.5 Vol %

Upper: 10.9 Vol %

· **Density:** Not determined

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

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10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** Reacts with oxidizing agents
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
64742-49-0 Naphtha (petroleum), hydrotreated light
Oral LD50 >2000 mg/kg (rat)
Dermal LD50 >2000 mg/kg (rab)
Inhalative LC50/4 h >5 mg/l (rat)
106-97-8 butane, pure
Inhalative LC50/4 h 658 mg/l (rat)
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.

12 Ecological information:

- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
16 05 04 gases in pressure containers (including halons) containing dangerous substances
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** 2 5F Gases.
- **Kemler Number:** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label** 2.1
- **Special marking:** Symbol (fish and tree)
- **Designation of goods:** 1950 AEROSOLS

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- Tunnel restriction code D
- Maritime transport IMDG/GGVSea:
- IMDG/GGVSea Class: 2.1
- UN Number: 1950
- Label 2.1
- Packaging group: -
- EMS Number: F-D,S-U
- Marine pollutant: No
- Correct technical name: AEROSOLS
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: 2.1
- UN/ID Number: 1950
- Label 2.1
- Packaging group: -
- Correct technical name: AEROSOLS, flammable

15 Regulatory information

- Designation according to EC guidelines:
- Code letter and hazard designation of product:



Xi Irritant
F+ Extremely flammable
N Dangerous for the environment

- Risk phrases:
 - 12 Extremely flammable.
 - 38 Irritating to skin.
 - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 67 Vapours may cause drowsiness and dizziness.
- Safety phrases:
 - 23 Do not breathe aerosol.
 - 24 Avoid contact with skin.
 - 37 Wear suitable gloves.
 - 43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.
 - 51 Use only in well-ventilated areas.
 - 60 This material and its container must be disposed of as hazardous waste.
- Special designation of certain preparations:
 - Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
 - Do not pierce or burn, even after use.
 - Do not spray on a naked flame or any incandescent material.
 - Buildup of explosive mixtures possible without sufficient ventilation.
 - Keep out of the reach of children
- National regulations
- Class Share in %
 - III 50-75
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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16 Other information:

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

11 Highly flammable.

12 Extremely flammable.

38 Irritating to skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

· Department issuing data specification sheet: Technical departement**· Contact:**

Technical departement

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· * Data compared to the previous version altered.

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