

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Product name : OKS 111

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : Lubricant spray

Recommended restrictions  
on use : Restricted to professional users.

#### 1.3 Details of the supplier of the safety data sheet

Company : 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 :

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber : +34 91 562 04 20

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.  
H229: Pressurised container: May burst if heated.

Specific target organ toxicity - single ex-  
posure, Category 3, Central nervous  
system H336: May cause drowsiness or dizziness.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-  
ways.

Long-term (chronic) aquatic hazard, Cat- H411: Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES







## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

egory 2

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

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 air-ways. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements	:	<b>Prevention:</b> 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. P273 Avoid release to the environment. <b>Response:</b> P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P391 Collect spillage. <b>Storage:</b> P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:  
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3      Revision Date: 25.03.2021      Date of last issue: 31.07.2018      Print Date: 26.03.2021  
Date of first issue: 10.06.2016

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Active agent with propellant and solvent.  
Wax

#### Components

Chemical name	CAS-No. EC-No.  Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	64742-49-0 920-750-0  649-328-00-1 01-2119473851-33- xxxx	Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411		$\geq 30 - < 50$
Substances with a workplace exposure limit :				
butane	106-97-8 203-448-7  601-004-00-0	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (Table 3), Note C	$\geq 20 - < 30$
molybdenum disul- phide	1317-33-5 215-263-9	Not classified		$\geq 10 - < 20$
propane	74-98-6 200-827-9  601-003-00-5 01-2119486944-21- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (Table 3)	$\geq 1 - < 10$
isobutane	75-28-5 200-857-2  601-004-00-0 01-2119485395-27- XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (Table 3), Note C	$\geq 1 - < 10$

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

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

### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : 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.
- Risks : Central nervous system depression  
Can be absorbed through skin.  
Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

#### 5.2 Special hazards arising from the substance or mixture

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  
Sulphur oxides  
Metal oxides

#### 5.3 Advice for firefighters

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.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

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.  
Only qualified personnel equipped with suitable protective equipment may intervene.

#### 6.2 Environmental precautions

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

respective authorities.

### 6.3 Methods and material for containment and cleaning up

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.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe 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.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

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.

### 7.3 Specific end use(s)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3      Revision Date: 25.03.2021      Date of last issue: 31.07.2018      Print Date: 26.03.2021  
Date of first issue: 10.06.2016

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
butane	106-97-8	VLA-ED (gas)	1.000 ppm	ES VLA (2013-02-22)
molybdenum di-sulphide	1317-33-5	VLA-ED (inhala-ble fraction)	10 mg/m3 (Molybdenum)	ES VLA (2015-02-19)
		VLA-ED (respira-ble fraction)	3 mg/m3 (Molybdenum)	ES VLA (2015-02-19)
propane	74-98-6	VLA-ED	1.000 ppm	ES VLA (2011-03-03)
isobutane	75-28-5	VLA-ED (gas)	1.000 ppm	ES VLA (2013-02-22)

### 8.2 Exposure controls

#### 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

Eye protection : Safety glasses with side-shields

#### 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.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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

Protective measures : The type of protective equipment must be selected according

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3	Revision Date: 25.03.2021	Date of last issue: 31.07.2018 Date of first issue: 10.06.2016	Print Date: 26.03.2021
----------------	------------------------------	---	---------------------------

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.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	:	aerosol
Colour	:	black
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	Not applicable
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
Flammability (solid, gas)	:	Extremely flammable aerosol.
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) Reference substance: Water The value is calculated
Density	:	0,77 g/cm <sup>3</sup> (20 °C)



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3	Revision Date: 25.03.2021	Date of last issue: 31.07.2018 Date of first issue: 10.06.2016	Print Date: 26.03.2021
----------------	------------------------------	---	---------------------------

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

### 9.2 Other information

Sublimation point : No data available

Metal corrosion rate : Not corrosive to metals

Self-ignition : No data available

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

- Acute oral toxicity : 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, Fa-  
tigue, 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 blis-  
tering.  
Symptoms: Skin disorders

##### Components:

##### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3	Revision Date: 25.03.2021	Date of last issue: 31.07.2018 Date of first issue: 10.06.2016	Print Date: 26.03.2021
----------------	------------------------------	---	---------------------------

### Skin corrosion/irritation

#### Product:

Remarks : This information is not available.

#### Components:

##### Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:

Result : Repeated exposure may cause skin dryness or cracking.

##### 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:

Assessment : No eye irritation

Result : No eye irritation

### 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3	Revision Date: 25.03.2021	Date of last issue: 31.07.2018 Date of first issue: 10.06.2016	Print Date: 26.03.2021
----------------	------------------------------	---	---------------------------

### 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 development : Remarks: No data available

### STOT - single exposure

#### Components:

##### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

May be fatal if swallowed and enters airways.

### Components:

#### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

May be fatal if swallowed and enters airways.

### **Further information**

#### Product:

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.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### 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:

##### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

#### **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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

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

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

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

Biodegradability : Result: Readily biodegradable.

### 12.3 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:

##### **Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics:**

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

##### **isobutane:**

Partition coefficient: n-octanol/water : log Pow: 2,88  
Method: OECD Test Guideline 107

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

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

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

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.

The following Waste Codes are only suggestions:

Waste Code : unused product, packagings not completely emptied  
16 05 04\*, gases in pressure containers (including halons)  
containing hazardous substances

---

## SECTION 14: Transport information

### 14.1 UN number

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3	Revision Date: 25.03.2021	Date of last issue: 31.07.2018 Date of first issue: 10.06.2016	Print Date: 26.03.2021
----------------	------------------------------	---	---------------------------

**ADR** : UN 1950  
**RID** : UN 1950  
**IMDG** : UN 1950  
**IATA** : UN 1950

### 14.2 UN proper shipping name

**ADR** : AEROSOLS  
**RID** : AEROSOLS  
**IMDG** : AEROSOLS  
(Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)  
**IATA** : Aerosols, flammable

### 14.3 Transport hazard class(es)

**ADR** : 2  
**RID** : 2  
**IMDG** : 2.1  
**IATA** : 2.1

### 14.4 Packing group

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

**IMDG**  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

Environmentally hazardous : no

#### IATA (Cargo)

Environmentally hazardous : no

### 14.6 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.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	: Not applicable

P2

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version 1.3	Revision Date: 25.03.2021	Date of last issue: 31.07.2018 Date of first issue: 10.06.2016	Print Date: 26.03.2021
----------------	------------------------------	---	---------------------------

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2 ENVIRONMENTAL HAZARDS

18 Liquefied extremely flammable gases (including LPG) and natural gas

P3b FLAMMABLE AEROSOLS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 81,12 %

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

H220 : Extremely flammable gas.  
H225 : Highly flammable liquid and vapour.  
H280 : Contains gas under pressure; may explode 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.

### Full text of other abbreviations

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U (table 3.1) : When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

ES VLA : 2, Section 2.3.2.1, Note 2).  
: Spain. Environmental Limits for exposure to Chemical agents  
- Table 1: Occupational Exposure Values  
ES VLA / VLA-ED : Environmental Daily Limit Value

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aerosol 1	H222, H229
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

#### Classification procedure:

Based on product data or assessment
Calculation method
Based on product data or assessment
Calculation method

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - ES



## OKS 111

Version	Revision Date:	Date of last issue: 31.07.2018	Print Date:
1.3	25.03.2021	Date of first issue: 10.06.2016	26.03.2021

---

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.