

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - IT  
(Commission Regulation (EU) 2020/878)



## OKS 2101

Version	Revision Date:	Date of last issue: 07.03.2024	Print Date:
2.6	07.03.2024	Date of first issue: 22.06.2016	07.03.2024

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

#### 1.1 Product identifier

Product name : OKS 2101

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

Use of the Substance/Mixture : Anticorrosion additive

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

National contact :

#### 1.4 Emergency telephone number

Emergency telephone number : 06 68593726 Roma - CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA  
800183459 Foggia - Az. Osp. Univ. Foggia  
081-5453333 Napoli - Az. Osp. "A. Cardarelli"  
06-49978000 Roma - CAV Policlinico "Umberto I"  
06-3054343 Roma - CAV Policlinico "A. Gemelli"  
055-7947819 Firenze - Az. Osp. "Careggi" U.O. Tossicologia Medica  
0382-24444 Pavia - CAV Centro Nazionale di Informazione Tossicologica  
02-66101029 Milano - Osp. Niguarda Ca' Granda  
800883300 Bergamo - Az. Osp. Papa Giovanni XXII  
800011858 Verona - Az. Osp. Integrata Verona  
  
+49 8142 3051 517 (Service 24/7)

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## 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.
Skin irritation, Category 2	H315: Causes skin irritation.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

### 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 airways. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects.
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

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P331

POISON CENTER/ doctor.  
Do NOT induce vomiting.

**Storage:**

P410 + P412

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

**Hazardous components which must be listed on the label:**

pentane

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics

Hydrocarbons, C6, isoalkanes, <5% n-hexane

**Additional Labelling**

EUH208 Contains calcium bis(dinonylnaphthalenesulphonate). May produce an allergic reaction.

### 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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Active substance with propellant  
Solvent

**Components**

Chemical name	CAS-No. EC-No. Index-No.	Classification	specific concentration limit M-Factor	Concentration (% w/w)

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	Registration number		Notes Acute toxicity estimate	
pentane	109-66-0 203-692-4  601-006-00-1 01-2119459286-30-XXXX	Flam. Liq.2; H225 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411		>= 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 3.1)	>= 10 - < 20
Hydrocarbons, C9- C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	265-150-3  01-2119463258-33	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411; EUH066	Note P	>= 2,5 - < 10
Hydrocarbons, C11- C12, isoalkanes, < 2% aromatics	918-167-1  01-2119472146-39-XXXX	Flam. Liq.3; H226 Asp. Tox.1; H304; EUH066	Note P	>= 1 - < 10
Hydrocarbons, C6, isoalkanes, <5% n- hexane	931-254-9  01-2119484651-34-XXXX	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411		>= 2,5 - < 10
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	926-605-8  01-2119486291-36-XXXX	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411		>= 2,5 - < 10
2-butoxyethanol	111-76-2 203-905-0  603-014-00-0	Acute Tox.4; H302 Acute Tox.3; H331 Skin Irrit.2; H315 Eye Irrit.2; H319		>= 1 - < 10

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	01-2119475108-36-XXXX		ATE (Oral): 1.200 mg/kg; ATE (Inhalation): 3 mg/l;	
calcium bis(dinonylnaphthalen esulphonate)	57855-77-3 260-991-2	Skin Irrit.2; H315 Eye Irrit.2; H319 Skin Sens.1; H317		>= 0,1 - < 1
Substances with a workplace exposure limit :				
butane	106-97-8 203-448-7  601-004-00-0 01-2119474691-32-XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 30 - < 50
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 3.1), Note C	>= 1 - < 10
Paraffin waxes and Hydrocarbon waxes	8002-74-2 232-315-6	Not classified		>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of 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.

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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.  
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 : Aspiration may cause pulmonary oedema and pneumonitis.

Inhalation may provoke the following symptoms:

Unconsciousness

Dizziness

Drowsiness

Headache

Nausea

Tiredness

Skin contact may provoke the following symptoms:

Erythema

Risks : Central nervous system depression  
Risk of product entering the lungs on vomiting after ingestion.  
Health injuries may be delayed.  
Causes skin irritation.  
May cause an allergic skin reaction.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

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

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.

Hazardous combustion products : Carbon 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 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.

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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)

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



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### 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	STEL	1.000 ppm	ACGIH (2018-03-20)
pentane	109-66-0	TWALimit Value - eight hours	1.000 ppm 3.000 mg/m <sup>3</sup>	2006/15/EC (2006-02-09)
	Further information: Indicative			
		TWA8 hour exposure limit	667 ppm 2.000 mg/m <sup>3</sup>	IT OEL (2008-02-26)
		TWA	1.000 ppm	ACGIH (2014-03-01)
isobutane	75-28-5	STEL	1.000 ppm	ACGIH (2018-03-20)
Paraffin waxes and Hydrocarbon waxes	8002-74-2	TWA (Fumes)	2 mg/m <sup>3</sup>	ACGIH (2010-03-01)
		TWA (Fumes)	2 mg/m <sup>3</sup>	ACGIH (2010-03-01)
2-butoxyethanol	111-76-2	TWALimit Value - eight hours	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC (2000-06-16)
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STELShort term exposure limit	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC (2000-06-16)
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA8 hour exposure limit	20 ppm 98 mg/m <sup>3</sup>	IT OEL (2020-05-19)
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			
		STELShort term exposure limit	50 ppm 246 mg/m <sup>3</sup>	IT OEL (2020-05-19)
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			
		TWA	20 ppm	ACGIH (2013-03-01)

##### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	Butoxyacetic acid (BAA): 200 mg/g Creatinine (Urine)	End of shift (As soon as possible after exposure ceases)	ACGIH BEI (2010-03-01)

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### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
pentane	Workers	Inhalation	Long-term systemic effects	3000 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	432 mg/kg
Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics	Workers	Inhalation	Acute systemic effects	1286,4 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	837,5 mg/m <sup>3</sup>
Hydrocarbons, C6, isoalkanes, <5% n-hexane	Workers	Inhalation	Acute systemic effects	1286,4 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	837,5 mg/m <sup>3</sup>
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Workers	Inhalation	Acute systemic effects	1286,4 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	837,5 mg/m <sup>3</sup>
2-butoxyethanol	Workers	Inhalation	Long-term systemic effects	98 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	1091 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	89 mg/kg bw/day
	Workers	Inhalation	Acute local effects	246 mg/m <sup>3</sup>
calcium bis(dinonylnaphthalen esulphonate)	Workers	Inhalation	Long-term systemic effects	2,23 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,32 mg/kg

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2-butoxyethanol	Fresh water	8,8 mg/l
	Marine water	0,88 mg/l
	Sewage treatment plant	463 mg/l
	Fresh water sediment	34,6 mg/kg
	Marine sediment	3,46 mg/kg
	Soil	2,33 mg/kg
	Intermittent use/release	26,4 mg/l
calcium bis(dinonylnaphthalenesulphonate)	Fresh water	0,27 mg/l

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	Marine water	0,027 mg/l
	Intermittent use/release	2,7 mg/l
	Microbiological Activity in Sewage Treatment Systems	10 mg/l
	Fresh water sediment	4,69 mg/kg
	Marine sediment	0,469 mg/kg
	Soil	0,936 mg/kg

### 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/face 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.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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 to the concentration and amount of the dangerous substance at the specific workplace.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Physical state : aerosol

Colour : yellow

Odour : characteristic

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : -161 °C (1.013 hPa)

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : 9,4 %(V)

Lower explosion limit / Lower flammability limit : 0,6 %(V)

Flash point : 0 °C  
Method: Abel-Pensky

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable  
substance/mixture is non-soluble (in water)

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : < 20,5 mm<sup>2</sup>/s (40 °C)

Solubility(ies)

    Water solubility : insoluble

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : 8.327 hPa (20 °C)

Relative density : 0,638 (20 °C)  
Reference substance: Water

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The value is calculated

Density	:	0,64 g/cm <sup>3</sup> (20 °C)
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics Particle size	:	No data available

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	No data available
Self-ignition	:	No data available
Metal corrosion rate	:	Not corrosive to metals
Evaporation rate	:	No data available
Sublimation point	:	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.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Heat, flames and sparks. Strong sunlight for prolonged periods. Risk of receptacle bursting.
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### 10.5 Incompatible materials

Materials to avoid	:	Oxidizing agents
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### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product:

- Acute oral toxicity : Remarks: Effects due to ingestion may include:  
Symptoms: Central nervous system depression  
Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : 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 toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method
- Acute dermal toxicity : Symptoms: Redness, Local irritation

##### Components:

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

- Acute inhalation toxicity : Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### **Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:**

- Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

#### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

- Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

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### 2-butoxyethanol:

Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

LD50 (Guinea pig): 1.414 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l  
Test atmosphere: vapour  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

LC50: 3 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### calcium bis(dinonylnaphthalenesulphonate):

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 20.000 mg/kg

### 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

### Skin corrosion/irritation

#### Product:

Remarks : Irritating to skin.

#### Components:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:

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Result : Repeated exposure may cause skin dryness or cracking.

### Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Result : Repeated exposure may cause skin dryness or cracking.

### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Result : Skin irritation

### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

Species : Rabbit  
Result : Skin irritation

### 2-butoxyethanol:

Species : Rabbit  
Assessment : Irritating to skin.  
Result : Irritating to skin.

### calcium bis(dinonylnaphthalenesulphonate):

Species : Rabbit  
Assessment : Irritating to skin.  
Result : Irritating to skin.

### Serious eye damage/eye irritation

#### Product:

Remarks : Irritating to eyes.

#### Components:

### 2-butoxyethanol:

Species : Rabbit  
Assessment : Irritating to eyes.  
Result : Irritating to eyes.

### calcium bis(dinonylnaphthalenesulphonate):

Species : Rabbit  
Assessment : Irritating to eyes.  
Result : Irritating to eyes.

### Respiratory or skin sensitisation

#### Product:

Remarks : This information is not available.



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### Components:

#### **2-butoxyethanol:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Did not cause sensitisation on laboratory animals.  
Result : Did not cause sensitisation on laboratory animals.

#### **calcium bis(dinonylnaphthalenesulphonate):**

Species : Guinea pig  
Assessment : May cause sensitisation by skin contact.  
Result : May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Components:

#### **2-butoxyethanol:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Test Type: In vivo micronucleus test  
Species: Rat  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity-  
Assessment : In vitro tests did not show mutagenic effects

### **Carcinogenicity**

#### Product:

Remarks : No data available

### Components:

#### **2-butoxyethanol:**

Carcinogenicity -  
Assessment : Animal testing did not show any carcinogenic effects.

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### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

#### Components:

##### **2-butoxyethanol:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
Animal testing did not show any effects on foetal development.

##### **calcium bis(dinonylnaphthalenesulphonate):**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction

### STOT - single exposure

#### Product:

Remarks : No data available

#### Components:

##### **pentane:**

Assessment : May cause drowsiness or dizziness.

##### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

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

##### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Assessment : May cause drowsiness or dizziness.

##### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

Assessment : May cause drowsiness or dizziness.

##### **2-butoxyethanol:**

Assessment : The substance or mixture is not classified as specific target

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organ toxicant, single exposure.

### **calcium bis(dinonylnaphthalenesulphonate):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

#### **Product:**

Remarks : No data available

#### **Components:**

### **2-butoxyethanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **calcium bis(dinonylnaphthalenesulphonate):**

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.

May be fatal if swallowed and enters airways.

#### **Components:**

### **pentane:**

May be fatal if swallowed and enters airways.

### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

May be fatal if swallowed and enters airways.

### **Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:**

May be fatal if swallowed and enters airways.

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### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

May be fatal if swallowed and enters airways.

### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

May be fatal if swallowed and enters airways.

### 2-butoxyethanol:

No aspiration toxicity classification

### calcium bis(dinonylnaphthalenesulphonate):

No aspiration toxicity classification

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

#### Components:

### Paraffin waxes and Hydrocarbon waxes:

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 : Remarks: No data available

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aquatic invertebrates

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms :  
Remarks: No data available

### Components:

**pentane:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l  
Exposure time: 48 h

#### **Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### **2-butoxyethanol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.474 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.550 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.840 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 286

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mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Danio rerio (zebra fish)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: Reproduction Test  
Method: OECD Test Guideline 211

### calcium bis(dinonylnaphthalenesulphonate):

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 0,28 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,27 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: No toxicity at the limit of solubility

### Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### Components:

#### Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:

Biodegradability : Result: Not readily biodegradable.

#### Hydrocarbons, C6, isoalkanes, <5% n-hexane:

Biodegradability : Result: Not rapidly biodegradable

#### 2-butoxyethanol:

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Biodegradability : Test Type: aerobic  
Result: rapidly biodegradable  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### **calcium bis(dinonylnaphthalenesulphonate):**

Biodegradability : Result: Not 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:**

#### **propane:**

Partition coefficient: n-octanol/water : log Pow: 2,36

#### **Hydrocarbons, C11-C12, isoalkanes, < 2% aromatics:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

#### **Hydrocarbons, C6, isoalkanes, <5% n-hexane:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 4

#### **2-butoxyethanol:**

Bioaccumulation : Bioconcentration factor (BCF): 3,16

Partition coefficient: n-octanol/water : log Pow: 0,81 (25 °C)  
Method: OECD Test Guideline 107

#### **calcium bis(dinonylnaphthalenesulphonate):**

Partition coefficient: n-octanol/water : log Pow: 10,96

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### butane:

Partition coefficient: n-octanol/water : log Pow: 2,89  
Method: OECD Test Guideline 107

### isobutane:

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

## 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.

### Components:

#### calcium bis(dinonylnaphthalenesulphonate):

Assessment : Non-classified PBT substance. Non-classified vPvB substance

## 12.6 Endocrine disrupting properties

### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### Product:

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



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### 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 or ID number

- ADN : UN 1950  
ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

#### 14.2 UN proper shipping name

- ADN : AEROSOLS  
ADR : AEROSOLS  
( )  
RID : AEROSOLS  
IMDG : AEROSOLS  
(naphtha (petroleum), hydrotreated light, cyclohexane)  
IATA : Aerosols, flammable  
(naphtha (petroleum), hydrotreated light)

#### 14.3 Transport hazard class(es)

- ADN : 2

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

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

**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

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : no

**ADR**  
Environmentally hazardous : yes

**RID**  
Environmentally hazardous : yes

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### IMDG

Marine pollutant : yes

### 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 Maritime transport in bulk according to IMO instruments

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 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75  
2-butoxyethanol (Number on list 3)
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) (EU POP) : Not applicable
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC) : Not applicable
- Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : Not applicable

P2

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

- P3a FLAMMABLE AEROSOLS
- E2 ENVIRONMENTAL HAZARDS
- 18 Liquefied flammable gases (including LPG) and natural gas
- 34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 93,32 %

### Other regulations:

Legislative Decree April 9,2008, 81 (Implementation of Article 1 of the Law of 3 August 2007, n. 123, concerning the protection of health and safety in the workplace.) and subsequent amendments

Legislative Decree April 3, 2006, n.152, (Environmental standards) and subsequent amendments

Legislative Decree February 6, 2009, 21 (Regulations for the execution of the provisions laid down in Regulation (EC) no. 648/2004 on detergents)

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

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

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### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

EUH066	:	Repeated exposure may cause skin dryness or cracking.
H220	:	Extremely flammable gas.
H225	:	Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
H280	:	Contains gas under pressure; may explode if heated.
H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H336	:	May cause drowsiness or dizziness.
H411	:	Toxic to aquatic life with long lasting effects.
EUH066	:	Repeated exposure may cause skin dryness or cracking.

### 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 P	:	The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.
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

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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 2, Section 2.3.2.1, Note 2).

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

2006/15/EC : Europe. Indicative occupational exposure limit values

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

IT OEL : Italy. List of indicative limit values for professional exposure to chemical agents.

2000/39/EC / TWA : Limit Value - eight hours

2000/39/EC / STEL : Short term exposure limit

2006/15/EC / TWA : Limit Value - eight hours

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

IT OEL / TWA : 8 hour exposure limit

IT OEL / STEL : Short term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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; TECl - Thailand Existing Chemicals

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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
Skin Irrit. 2	H315
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 2	H411

#### Classification procedure:

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

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