

# SAFETY DATA SHEET

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



## OKS 530

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 13.06.2019  | Print Date: |
| 2.0     | 05.05.2020     | Date of first issue: 09.07.2016 | 05.05.2020  |

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

#### 1.1 Product identifier

Product name : OKS 530

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

Use of the Sub-  
stance/Mixture : Lubricant

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

E-mail address of person  
responsible for the SDS : mcm@oks-germany.com  
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)



Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Eye irritation, Category 2 H319: Causes serious eye irritation.

**Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.**

#### 2.2 Label elements

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

Hazard pictograms :  

Signal word : Warning

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Hazard statements : H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.

Hazardous components which must be listed on the label:  
2-methylisothiazol-3(2H)-one

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous solution  
graphite  
Molybdenum disulfide  
organic binding agent

#### Components

| Chemical name | CAS-No.<br>EC-No.<br><br>Index-No.<br>Registration number | Classification   | Concentration limits<br>M-Factor<br>Notes | Concentration (% w/w) |
|---------------|---|--|---|-----------------------|
| isopropanol   | 67-63-0<br>200-661-7<br><br>603-117-00-0                  | Flam. Liq.2; H225<br>Eye Irrit.2; H319<br>Eye Irrit.2A; H319<br>STOT SE3; H336 |   | >= 1 - < 10           |

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|  |  |  |  |                         |
|--|--|--|--|-------------------------|
|  | 02-2119457558-25-XXXX  |  |  |                         |
| 2-butoxyethanol                              | 111-76-2<br>203-905-0<br><br>603-014-00-0<br>01-2119475108-36-XXXX | Acute Tox.4; H302<br>Acute Tox.4; H332<br>Acute Tox.4; H312<br>Skin Irrit.2; H315<br>Eye Irrit.2; H319   |  | $\geq 1 - < 10$         |
| dodecylguanidine monohydrochloride           | 13590-97-1<br>237-030-0  | Acute Tox.4; H302<br>Acute Tox.2; H330<br>Skin Corr.1B;<br>H314<br>Eye Dam.1; H318<br>Aquatic Acute1;<br>H400  | M-Factor: 10/  | $\geq 0,0025 - < 0,025$ |
| 2-methylisothiazol-3(2H)-one                 | 2682-20-4<br>220-239-6<br><br>613-326-00-9                         | Acute Tox.3; H301<br>Acute Tox.2; H330<br>Acute Tox.3; H311<br>Skin Corr.1B;<br>H314<br>Eye Dam.1; H318<br>Skin Sens.1A;<br>H317<br>STOT SE3; H335<br>Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410 | $\geq 0,0015$ %<br>Skin Sens.1A,<br>H317<br><br>M-Factor: 10/1 | $\geq 0,0025 - < 0,025$ |
| Substances with a workplace exposure limit : |  |  |  |                         |
| Graphite                                     | 7782-42-5<br>231-955-3<br><br>01-2119486977-12-XXXX                | Not classified   |  | $\geq 10 - < 20$        |
| molybdenum disulfide                         | 1317-33-5<br>215-263-9   | Not classified   |  | $\geq 1 - < 10$         |
| 2,2',2''-nitrilotriethanol                   | 102-71-6<br>203-049-8<br><br>01-2119486482-31-XXXX                 | Not classified   |  | $\geq 1 - < 10$         |

For explanation of abbreviations see section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of 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 : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
Seek medical advice.
- If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : Inhalation may provoke the following symptoms:  
Unconsciousness  
Dizziness  
Drowsiness  
Headache  
Nausea  
Tiredness  
Allergic appearance
- Risks : Can be absorbed through skin.  
May cause an allergic skin reaction.

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.  
Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Fire may cause evolution of:  
Carbon oxides  
Metal oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides

Do not let product enter drains.  
Container may explode if heated.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

#### 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.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Do not breathe vapours or spray mist.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

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.

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### 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).  
Non-sparking tools should be used.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Use only in an area containing explosion proof equipment.  
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.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
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.  
Do not enter areas where used or stored until adequately ventilated.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

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

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

Requirements for storage areas and containers : Store in original container. Keep container closed when not in use. Keep in a cool place away from oxidizing agents. Keep in a dry, cool and well-ventilated place. Do not store together with oxidizing and self-igniting products. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

### 7.3 Specific end use(s)

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                   |
|-----------------------|---|-----------------------------------|--------------------------------------|-------------------------|
| Graphite              | 7782-42-5   | VLA-ED (respirable dust fraction) | 2 mg/m <sup>3</sup>                  | ES VLA (2017-02-01)     |
| isopropanol           | 67-63-0   | VLA-ED                            | 200 ppm<br>500 mg/m <sup>3</sup>     | ES VLA (2011-03-03)     |
|                       |   | VLA-EC                            | 400 ppm<br>1.000 mg/m <sup>3</sup>   | ES VLA (2011-03-03)     |
| molybdenum disulphide | 1317-33-5   | VLA-ED (inhala-ble fraction)      | 10 mg/m <sup>3</sup><br>(Molybdenum) | ES VLA (2015-02-19)     |
| Further information   | The terms soluble and insoluble are understood to refer to the water., Please refer to UNE EN 481: Workplaces atmospheres. Size fraction definitions for measurement of airborne particles. |                                   |                                      |                         |
|                       |   | VLA-ED (respirable fraction)      | 3 mg/m <sup>3</sup><br>(Molybdenum)  | ES VLA (2015-02-19)     |
| Further information   | The terms soluble and insoluble are understood to refer to the water., Please refer to UNE EN 481: Workplaces atmospheres. Size fraction definitions for measurement of airborne particles. |                                   |                                      |                         |
| 2-butoxyethanol       | 111-76-2  | TWA                               | 20 ppm<br>98 mg/m <sup>3</sup>       | 2000/39/EC (2000-06-16) |
| Further information   | Identifies the possibility of significant uptake through the skin, Indicative   |                                   |                                      |                         |
|                       |   | STEL                              | 50 ppm<br>246 mg/m <sup>3</sup>      | 2000/39/EC (2000-06-16) |
| Further information   | Identifies the possibility of significant uptake through the skin, Indicative   |                                   |                                      |                         |
|                       |   | VLA-ED                            | 20 ppm<br>98 mg/m <sup>3</sup>       | ES VLA (2012-01-01)     |
| Further information   | Skin  |                                   |                                      |                         |
|                       |   | VLA-EC                            | 50 ppm<br>245 mg/m <sup>3</sup>      | ES VLA (2012-01-01)     |
| Further information   | Skin  |                                   |                                      |                         |
| 2,2',2''-             | 102-71-6  | VLA-ED                            | 5 mg/m <sup>3</sup>                  | ES VLA                  |

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nitrilotriethanol | | | | (2006-01-01)

### Biological occupational exposure limits

| Substance name  | CAS-No.  | Control parameters                              | Sampling time               | Basis               |
|-----------------|----------|---|-----------------------------|---------------------|
| isopropanol     | 67-63-0  | Acetone: 40 mg/l (Urine)                        | At the end of the work week | ES VLB (2011-03-03) |
| 2-butoxyethanol | 111-76-2 | butoxy acetic acid: 200 mg/g Creatinine (Urine) | End of workday              | ES VLB (2011-03-03) |

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

| Substance name             | End Use | Exposure routes | Potential health effects   | Value                  |
|----------------------------|---------|-----------------|----------------------------|------------------------|
| 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       |
| 2,2',2''-nitrilotriethanol | Workers | Skin contact    | Acute systemic effects     | 89 mg/kg bw/day        |
|                            | Workers | Inhalation      | Acute local effects        | 246 mg/m <sup>3</sup>  |
|                            | Workers | Dermal          | Long-term systemic effects | 6,3 mg/kg              |
| 2,2',2''-nitrilotriethanol | Workers | Inhalation      | Long-term systemic effects | 5 mg/m <sup>3</sup>    |
|                            | Workers | Inhalation      | Long-term local effects    | 5 mg/m <sup>3</sup>    |

### 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  |
|                            | Oral   | 0,02 mg/kg  |
| 2,2',2''-nitrilotriethanol | Soil   | 0,151 mg/kg |
|                            | Microbiological Activity in Sewage Treatment Systems | 10 mg/l     |
|                            | Fresh water  | 0,32 mg/l   |
|                            | Marine water   | 0,032 mg/l  |
|                            | Fresh water sediment                                 | 1,7 mg/kg   |
| Marine sediment            | 0,17 mg/kg   |             |

## 8.2 Exposure controls

### Engineering measures

Use only in an area equipped with explosion proof exhaust ventilation.



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Maintain air concentrations below occupational exposure standards.

### 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.

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.  
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 : liquid  
Colour : black  
Odour : solvent-like  
Odour Threshold : No data available  
pH : 9 (20 °C)  
Concentration: 100 %  
Melting point/range : No data available

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|--|---|-----------------------------------|
| Boiling point/boiling range                      | : | 82 °C<br>(1.013 hPa)              |
| Flash point                                      | : | 37 °C<br>Method: Abel-Pensky      |
| Evaporation rate                                 | : | No data available                 |
| Flammability (solid, gas)                        | : | Not applicable                    |
| Upper explosion limit / Upper flammability limit | : | No data available                 |
| Lower explosion limit / Lower flammability limit | : | No data available                 |
| Vapour pressure                                  | : | 35 hPa (20 °C)                    |
| Relative vapour density                          | : | No data available                 |
| Density  | : | 1,10 g/cm <sup>3</sup><br>(20 °C) |
| Bulk density                                     | : | No data available                 |
| Solubility(ies)                                  | : |                                   |
| Water solubility                                 | : | soluble                           |
| 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                             | : | 129 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       |

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### 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.  
Strong sunlight for prolonged periods.

#### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

#### 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 : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Symptoms: Redness, Local irritation

##### Components:

##### isopropanol:

Acute oral toxicity : LD50 Oral (Rat): 5.840 mg/kg

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### 2-butoxyethanol:

- Acute oral toxicity : LD50 (Rat): 1.746 mg/kg
- Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.
- Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

### dodecylguanidine monohydrochloride:

- Acute oral toxicity : LD50 (Rat): Assessment: The component/mixture is moderately toxic after single ingestion.
- Acute inhalation toxicity : LC50 (Rat): Test atmosphere: dust/mist  
Assessment: The component/mixture is highly toxic after short term inhalation.

### 2-methylisothiazol-3(2H)-one:

- Acute oral toxicity : LD50 Oral (Rat): > 50 mg/kg
- Symptoms: Pain, Stomach/intestinal disorders
- Remarks: Toxic if swallowed.
- Acute inhalation toxicity : LC50 (Rat): 0,11 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- Remarks: Risk of delayed pulmonary oedema.  
Effects of breathing high concentrations of vapour may include:  
Very toxic by inhalation.  
Irritating to respiratory system.
- Symptoms: Local irritation, Respiratory disorders, Inhalation may provoke the following symptoms:
- Acute dermal toxicity : LD50 Dermal (Rabbit, female): 326 mg/kg
- Remarks: Very toxic in contact with skin.
- Symptoms: Blistering, Redness, Local irritation

### molybdenum disulphide:

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
- Acute dermal toxicity : LD50 (Rat): > 16.000 mg/kg

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### 2,2',2''-nitrioltriethanol:

Acute oral toxicity : LD50 (Rat): 6.400 mg/kg  
Method: OECD Test Guideline 401

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

### Skin corrosion/irritation

#### Product:

Remarks : This information is not available.

#### Components:

##### 2-butoxyethanol:

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

##### dodecylguanidine monohydrochloride:

Assessment : Causes burns.  
Result : Causes burns.

##### 2-methylisothiazol-3(2H)-one:

Species : Rabbit  
Result : Causes burns.

Remarks : Causes skin burns.

##### molybdenum disulphide:

Assessment : No skin irritation  
Result : No skin irritation

##### 2,2',2''-nitrioltriethanol:

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : Irritating to eyes.

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### Components:

#### **isopropanol:**

Result : Irritating to eyes.

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

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

#### **2-methylisothiazol-3(2H)-one:**

Remarks : Acute eye irritation/corrosion  
Causes eye burns.

#### **molybdenum disulphide:**

Assessment : No eye irritation  
Result : No eye irritation

#### **2,2',2''-nitrioltriethanol:**

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### Product:

Remarks : This information is not available.

### 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.

#### **2-methylisothiazol-3(2H)-one:**

Species : Rabbit  
Assessment : May cause sensitisation by skin contact.

#### **molybdenum disulphide:**

Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

#### **2,2',2''-nitrioltriethanol:**

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Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
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:

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

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

##### **molybdenum disulphide:**

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

### Carcinogenicity

#### Product:

Remarks : No data available

#### Components:

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

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

##### **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

#### Components:

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

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

### STOT - single exposure

#### Components:

##### **isopropanol:**

Assessment : May cause drowsiness or dizziness.

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

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

##### **2-methylisothiazol-3(2H)-one:**

Assessment : May cause respiratory irritation.

##### **molybdenum disulphide:**

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

##### **2,2',2''-nitrioltriethanol:**

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

### STOT - repeated exposure

#### Components:

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

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

##### **molybdenum disulphide:**

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

##### **2,2',2''-nitrioltriethanol:**

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.



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### Aspiration toxicity

#### Product:

This information is not available.

#### Components:

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

No aspiration toxicity classification

##### **2,2',2''-nitilotriethanol:**

No aspiration toxicity classification

### Further information

#### Product:

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

#### Components:

##### **2-methylisothiazol-3(2H)-one:**

Remarks : Ingestion causes burns of the upper digestive and respiratory tracts.

##### **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: No data available

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

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### Components:

#### **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
- 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

#### **dodecylguanidine monohydrochloride:**

- M-Factor (Acute aquatic toxicity) : 10

#### **Ecotoxicology Assessment**

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : This product has no known ecotoxicological effects.

#### **2-methylisothiazol-3(2H)-one:**

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,85 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 0,072 mg/l  
Exposure time: 72 h
- M-Factor (Acute aquatic toxicity) : 10
- : 10
- M-Factor (Chronic aquatic toxicity) : 1

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toxicity)

### **molybdenum disulphide:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

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

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

### **2,2',2''-nitriлотriethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 11.800 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 609,88 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: flow-through test

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 216 mg/l  
plants Exposure time: 72 h  
Test Type: static test

## 12.2 Persistence and degradability

### **Product:**

Biodegradability : Remarks: No data available

Physico-chemical removabil- : Remarks: No data available  
ity

### **Components:**

#### **isopropanol:**

Biodegradability : Result: Readily biodegradable.

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

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

#### **2-methylisothiazol-3(2H)-one:**

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Biodegradability : Result: Readily biodegradable.

### **2,2',2''-nitrioltriethanol:**

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:**

#### **isopropanol:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 0,05

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

Bioaccumulation : Bioconcentration factor (BCF): 2,5

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

#### **2-methylisothiazol-3(2H)-one:**

Partition coefficient: n-octanol/water : log Pow: -0,486

#### **2,2',2''-nitrioltriethanol:**

Partition coefficient: n-octanol/water : log Pow: -2,3 (25 °C)

## 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

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to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### Components:

#### **2,2',2''-nitrioltriethanol:**

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

### 12.6 Other adverse effects

#### Product:

Additional ecological information : No information on ecology is available.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
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.  
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code : unused product  
12 01 09\*, machining emulsions and solutions free of halogens

uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances

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## SECTION 14: Transport information

### 14.1 UN number

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**ADR** : UN 1263  
**IMDG** : UN 1263  
**IATA** : UN 1263

### 14.2 UN proper shipping name

**ADR** : PAINT  
**IMDG** : PAINT  
**IATA** : Paint

### 14.3 Transport hazard class(es)

**ADR** : 3  
**IMDG** : 3  
**IATA** : 3

### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

**IMDG**  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

**ADR**  
Environmentally hazardous : no

**IMDG**  
Marine pollutant : no

**IATA (Passenger)**  
Environmentally hazardous : no

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### 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) : Conditions of restriction for the following entries should be considered: Number on list 3

P5c

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

P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 11,63 %

### Other regulations:

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

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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

|      |   |
|------|---|
| H225 | : Highly flammable liquid and vapour.                   |
| H301 | : Toxic if swallowed.                                   |
| H302 | : Harmful if swallowed.                                 |
| H311 | : Toxic in contact with skin.                           |
| H312 | : Harmful in contact with skin.                         |
| H314 | : Causes severe skin burns and eye damage.              |
| H315 | : Causes skin irritation.                               |
| H317 | : May cause an allergic skin reaction.                  |
| H318 | : Causes serious eye damage.                            |
| H319 | : Causes serious eye irritation.                        |
| H330 | : Fatal if inhaled.                                     |
| H332 | : Harmful if inhaled.                                   |
| H335 | : May cause respiratory irritation.                     |
| H336 | : May cause drowsiness or dizziness.                    |
| H400 | : Very toxic to aquatic life.                           |
| H410 | : Very toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                   |  |
|-------------------|--|
| 2000/39/EC        | : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| ES VLA            | : Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values                |
| ES VLB            | : Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values                             |
| 2000/39/EC / TWA  | : Limit Value - eight hours  |
| 2000/39/EC / STEL | : Short term exposure limit  |
| ES VLA / VLA-ED   | : Environmental Daily Limit Value  |
| ES VLA / VLA-EC   | : Environmental Short Term 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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regula-



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tion; 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:

Flam. Liq. 3                      H226  
Eye Irrit. 2                        H319

#### Classification procedure:

Based on product data or assessment  
Calculation method

**Skin Sens. 1                      H317                      Calculation method**

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