# Safety Data Sheet according to (EC) No 1907/2006 as amended



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V002.0
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Unibond 132 Solvent Cleaner

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

**1.1. Product identifier**
Unibond 132 Solvent Cleaner

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Solvent based cleaner

**1.3. Details of the supplier of the safety data sheet**
Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000
Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

**1.4. Emergency telephone number**
24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Classification (CLP):**

| | |
|---|---|
| Flammable liquids | Category 2 |
| H225 Highly flammable liquid and vapor. | |
| Aspiration hazard | Category 1 |
| H304 May be fatal if swallowed and enters airways. | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Specific target organ toxicity - single exposure | Category 3 |
| H336 May cause drowsiness or dizziness. | |
| Target organ: Central nervous system | |
| Chronic hazards to the aquatic environment | Category 2 |
| H411 Toxic to aquatic life with long lasting effects. | |
| Specific target organ toxicity - repeated exposure | Category 2 |
| H373 May cause damage to organs through prolonged or repeated exposure. | |

**2.2. Label elements**

**Label elements (CLP):**

**Hazard pictogram:**

**Contains**

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

n-butyl acetate

Naphtha (Petroleum), hydrodesulfurized heavy, <0,1% Benzene

**Signal word:**

Danger

**Hazard statement:**

H225 Highly flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statement: Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist/vapours.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves.

**Precautionary statement: Response**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P331 Do NOT induce vomiting.

**2.3. Other hazards**

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
Pregnant women should absolutely avoid inhalation and skin contact.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**General chemical description:**
Stripper
**Base substances of preparation:**
Aliphatic/Aromatic hydrocarbons

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No. | EC Number<br>REACH-Reg No. | content | Classification |
|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | 931-254-9<br>01-2119484651-34 | 30- 50 % | Asp. Tox. 1<br>H304<br>Skin Irrit. 2<br>H315<br>STOT SE 3<br>H336<br>Flam. Liq. 2<br>H225<br>Aquatic Chronic 2<br>H411 |
| n-butyl acetate<br>123-86-4 | 204-658-1<br>01-2119485493-29 | 10- 30 % | Flam. Liq. 3<br>H226<br>STOT SE 3<br>H336 |
| Ethanol<br>64-17-5 | 200-578-6<br>01-2119457610-43 | 10- 30 % | Eye Irrit. 2<br>H319<br>Flam. Liq. 2<br>H225 |
| Naphtha (Petroleum), hydrodesulfurized heavy, <0,1% Benzene<br>64742-82-1 | 265-185-4 | 1- < 10 % | Flam. Liq. 2<br>H226<br>Asp. Tox. 1<br>H304<br>STOT RE 1<br>H372<br>Aquatic Chronic 2<br>H411 |
| 2-Butoxyethanol<br>111-76-2 | 203-905-0<br>01-2119475108-36 | 1- 10 % | Skin Irrit. 2<br>H315<br>Eye Irrit. 2<br>H319<br>Acute Tox. 4; Oral<br>H302<br>Acute Tox. 4; Inhalation<br>H332 |
| methanol<br>67-56-1 | 200-659-6<br>01-2119433307-44 | 0,1- < 1 % | Flam. Liq. 2<br>H225<br>Acute Tox. 3; Inhalation<br>H331<br>Acute Tox. 3; Dermal<br>H311<br>Acute Tox. 3; Oral<br>H301<br>STOT SE 1<br>H370 |

**For full text of the H - statements and other abbreviations see section 16 "Other information".**
**Substances without classification may have community workplace exposure limits available.**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:
Rinse mouth, do not induce vomiting, consult a doctor.
After ingestion or vomit: danger of product entering the lung.

**4.2. Most important symptoms and effects, both acute and delayed**
RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Redness, inflammation.

ASPIRATION: Coughing, shortness of breath, nausea. Delayed effect: bronchopneumonia or pulmonary oedema

Vapors may cause drowsiness and dizziness.

**4.3. Indication of any immediate medical attention and special treatment needed**
Swallowing may cause irritation of mouth, throat and digestive tract, diarrhea and vomiting

Do not induce vomiting.
Seek medical attention from a specialist.
See section: Description of first aid measures

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**
**Suitable extinguishing media:**
carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**
High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**
In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

**5.3. Advice for firefighters**
Wear protective equipment.
Wear self-contained breathing apparatus.

**Additional information:**
Do not breathe combustion gases., Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Keep unprotected persons away.
Danger of slipping on spilled product.
Wear protective equipment.
Avoid contact with skin and eyes.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**
Remove with liquid-absorbing material (sand, peat, sawdust).
Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Avoid skin and eye contact.

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Hygiene measures:

Do not breathe solvent vapors.

When using the product avoid alcohol consumption.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

**7.2. Conditions for safe storage, including any incompatibilities**

Ensure good ventilation/extraction.
Keep only in original container.
Store in a cool, dry place.
Keep container tightly sealed.
Keep away from sources of ignition.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)**

Solvent based cleaner

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits**

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| n-Butyl acetate<br>123-86-4<br>[BUTYL ACETATE] | 150 | 724 | Time Weighted Average (TWA): | | EH40 WEL |
| n-Butyl acetate<br>123-86-4<br>[N-BUTYL ACETATE] | 150 | 723 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| n-Butyl acetate<br>123-86-4<br>[N-BUTYL ACETATE] | 50 | 241 | Time Weighted Average (TWA): | Indicative | ECTLV |
| n-Butyl acetate<br>123-86-4<br>[BUTYL ACETATE] | 200 | 966 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| Ethanol<br>64-17-5<br>[ETHANOL] | 1.000 | 1.920 | Time Weighted Average (TWA): | | EH40 WEL |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | 25 | 123 | Time Weighted Average (TWA): | | EH40 WEL |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | 20 | 98 | Time Weighted Average (TWA): | Indicative | ECTLV |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | 50 | 246 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | 50 | 246 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |
| Methanol<br>67-56-1<br>[METHANOL] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Methanol<br>67-56-1<br>[METHANOL] | 200 | 266 | Time Weighted Average (TWA): | | EH40 WEL |
| Methanol<br>67-56-1<br>[METHANOL] | 200 | 260 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Methanol<br>67-56-1<br>[METHANOL] | 250 | 333 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

**Occupational Exposure Limits**

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| n-Butyl acetate<br>123-86-4<br>[BUTYL ACETATE] | 150 | 710 | Time Weighted Average (TWA): | | IR_OEL |
| n-Butyl acetate<br>123-86-4<br>[BUTYL ACETATE] | 200 | 950 | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |
| n-Butyl acetate<br>123-86-4<br>[N-BUTYL ACETATE] | 150 | 723 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| n-Butyl acetate<br>123-86-4<br>[N-BUTYL ACETATE] | 50 | 241 | Time Weighted Average (TWA): | Indicative | ECTLV |

| | | | | | |
|---|---|---|---|---|---|
| Ethanol<br>64-17-5<br>[ETHANOL] | 1.000 | | Short Term Exposure Limit (STEL): | 15 minutes | IR_OEL |
| Naphtha (petroleum), hydrodesulfurized heavy<br>64742-82-1<br>[STODDARD SOLVENT] | 100 | 573 | Time Weighted Average (TWA): | | IR_OEL |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL (EGBE)] | 50 | 246 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL (EGBE)] | 20 | 98 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL (EGBE)] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | 20 | 98 | Time Weighted Average (TWA): | Indicative | ECTLV |
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | 50 | 246 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Methanol<br>67-56-1<br>[METHANOL] | 200 | 260 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Methanol<br>67-56-1<br>[METHANOL] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Methanol<br>67-56-1<br>[METHANOL] | 200 | 260 | Time Weighted Average (TWA): | Indicative | ECTLV |

**Predicted No-Effect Concentration (PNEC):**

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| n-Butyl acetate 123-86-4 | aqua (freshwater) | | 0,18 mg/l | | | | |
| n-Butyl acetate 123-86-4 | aqua (marine water) | | 0,018 mg/l | | | | |
| n-Butyl acetate 123-86-4 | aqua (intermittent releases) | | 0,36 mg/l | | | | |
| n-Butyl acetate 123-86-4 | sewage treatment plant (STP) | | 35,6 mg/l | | | | |
| n-Butyl acetate 123-86-4 | sediment (freshwater) | | | | 0,981 mg/kg | | |
| n-Butyl acetate 123-86-4 | sediment (marine water) | | | | 0,0981 mg/kg | | |
| n-Butyl acetate 123-86-4 | Soil | | | | 0,0903 mg/kg | | |
| n-Butyl acetate 123-86-4 | Air | | | | | | no hazard identified |
| n-Butyl acetate 123-86-4 | Predator | | | | | | no potential for bioaccumulation |
| Ethanol 64-17-5 | aqua (freshwater) | | 0,96 mg/l | | | | |
| Ethanol 64-17-5 | aqua (marine water) | | 0,79 mg/l | | | | |
| Ethanol 64-17-5 | aqua (intermittent releases) | | 2,75 mg/l | | | | |
| Ethanol 64-17-5 | sewage treatment plant (STP) | | 580 mg/l | | | | |
| Ethanol 64-17-5 | sediment (freshwater) | | | | 3,6 mg/kg | | |
| Ethanol 64-17-5 | sediment (marine water) | | | | 2,9 mg/kg | | |
| Ethanol 64-17-5 | Soil | | | | 0,63 mg/kg | | |
| Ethanol 64-17-5 | oral | | | | 380 mg/kg | | |
| 2-butoxyethanol 111-76-2 | aqua (freshwater) | | 8,8 mg/l | | | | |
| 2-butoxyethanol 111-76-2 | aqua (marine water) | | 0,88 mg/l | | | | |
| 2-butoxyethanol 111-76-2 | sewage treatment plant (STP) | | 463 mg/l | | | | |
| 2-butoxyethanol 111-76-2 | sediment (freshwater) | | | | 34,6 mg/kg | | |
| 2-butoxyethanol 111-76-2 | sediment (marine water) | | | | 3,46 mg/kg | | |
| 2-butoxyethanol 111-76-2 | Soil | | | | 2,33 mg/kg | | |
| 2-butoxyethanol 111-76-2 | oral | | | | 20 mg/kg | | |
| 2-butoxyethanol 111-76-2 | aqua (intermittent releases) | | 26,4 mg/l | | | | |
| methanol 67-56-1 | aqua (freshwater) | | 20,8 mg/l | | | | |
| methanol 67-56-1 | sediment (freshwater) | | | | 77 mg/kg | | |
| methanol 67-56-1 | aqua (marine water) | | 2,08 mg/l | | | | |
| methanol 67-56-1 | Soil | | | | 100 mg/kg | | |
| methanol 67-56-1 | sewage treatment plant (STP) | | 100 mg/l | | | | |
| methanol 67-56-1 | aqua (intermittent | | 1540 mg/l | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | releases) | | | | | | |
| methanol<br>67-56-1 | sediment<br>(marine water) | | | | 7,7 mg/kg | | |

**Derived No-Effect Level (DNEL):**

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| Naphtha (petroleum), hydrotreated light, < 0,1% benzene 64742-49-0 | General population | dermal | Long term exposure - systemic effects | | 1377 mg/kg | |
| Naphtha (petroleum), hydrotreated light, < 0,1% benzene 64742-49-0 | Workers | Inhalation | Long term exposure - systemic effects | | 5306 mg/m3 | |
| Naphtha (petroleum), hydrotreated light, < 0,1% benzene 64742-49-0 | General population | Inhalation | Long term exposure - systemic effects | | 1137 mg/m3 | |
| Naphtha (petroleum), hydrotreated light, < 0,1% benzene 64742-49-0 | General population | oral | Long term exposure - systemic effects | | 1301 mg/kg | |
| Naphtha (petroleum), hydrotreated light, < 0,1% benzene 64742-49-0 | Workers | dermal | Long term exposure - systemic effects | | 13964 mg/kg | |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Long term exposure - systemic effects | | 300 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Acute/short term exposure - systemic effects | | 600 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Long term exposure - local effects | | 300 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | inhalation | Acute/short term exposure - local effects | | 600 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | dermal | Long term exposure - systemic effects | | 11 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | Workers | dermal | Acute/short term exposure - systemic effects | | 11 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | inhalation | Long term exposure - systemic effects | | 35,7 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | inhalation | Acute/short term exposure - systemic effects | | 300 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | inhalation | Acute/short term exposure - local effects | | 300 mg/m3 | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | dermal | Long term exposure - systemic effects | | 6 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | dermal | Acute/short term exposure - systemic effects | | 6 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | oral | Long term exposure - systemic effects | | 2 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | oral | Acute/short term exposure - systemic effects | | 2 mg/kg | no hazard identified |
| n-Butyl acetate 123-86-4 | General population | inhalation | Long term exposure - local effects | | 35,7 mg/m3 | no hazard identified |
| Ethanol 64-17-5 | Workers | dermal | Long term exposure - systemic effects | | 343 mg/kg | |
| Ethanol 64-17-5 | Workers | inhalation | Long term exposure - systemic effects | | 950 mg/m3 | |
| Ethanol 64-17-5 | General population | dermal | Long term exposure - systemic effects | | 206 mg/kg | |
| Ethanol 64-17-5 | General population | inhalation | Long term exposure - systemic effects | | 114 mg/m3 | |
| Ethanol 64-17-5 | General population | oral | Long term exposure - | | 87 mg/kg | |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | systemic effects | | | |
| 2-butoxyethanol<br>111-76-2 | Workers | inhalation | Long term exposure - systemic effects | | 98 mg/m3 | |
| 2-butoxyethanol<br>111-76-2 | Workers | inhalation | Acute/short term exposure - local effects | | 246 mg/m3 | |
| 2-butoxyethanol<br>111-76-2 | Workers | inhalation | Acute/short term exposure - systemic effects | | 1091 mg/m3 | |
| 2-butoxyethanol<br>111-76-2 | Workers | dermal | Long term exposure - systemic effects | | 125 mg/kg | |
| 2-butoxyethanol<br>111-76-2 | Workers | dermal | Acute/short term exposure - systemic effects | | 89 mg/kg | |
| 2-butoxyethanol<br>111-76-2 | General population | inhalation | Long term exposure - systemic effects | | 59 mg/m3 | |
| 2-butoxyethanol<br>111-76-2 | General population | inhalation | Acute/short term exposure - systemic effects | | 426 mg/m3 | |
| 2-butoxyethanol<br>111-76-2 | General population | inhalation | Acute/short term exposure - local effects | | 147 mg/m3 | |
| 2-butoxyethanol<br>111-76-2 | General population | dermal | Long term exposure - systemic effects | | 75 mg/kg | |
| 2-butoxyethanol<br>111-76-2 | General population | dermal | Acute/short term exposure - systemic effects | | 89 mg/kg | |
| 2-butoxyethanol<br>111-76-2 | General population | oral | Long term exposure - systemic effects | | 6,3 mg/kg | |
| 2-butoxyethanol<br>111-76-2 | General population | oral | Acute/short term exposure - systemic effects | | 26,7 mg/kg | |
| methanol<br>67-56-1 | Workers | inhalation | Long term exposure - systemic effects | | 260 mg/m3 | |
| methanol<br>67-56-1 | Workers | inhalation | Acute/short term exposure - systemic effects | | 260 mg/m3 | |
| methanol<br>67-56-1 | Workers | inhalation | Long term exposure - local effects | | 260 mg/m3 | |
| methanol<br>67-56-1 | Workers | inhalation | Acute/short term exposure - local effects | | 260 mg/m3 | |
| methanol<br>67-56-1 | Workers | dermal | Long term exposure - systemic effects | | 40 mg/kg | |
| methanol<br>67-56-1 | Workers | dermal | Acute/short term exposure - systemic effects | | 40 mg/kg | |
| methanol<br>67-56-1 | General population | inhalation | Long term exposure - systemic effects | | 50 mg/m3 | |
| methanol<br>67-56-1 | General population | inhalation | Acute/short term exposure - systemic effects | | 50 mg/m3 | |
| methanol<br>67-56-1 | General population | inhalation | Long term exposure - local effects | | 50 mg/m3 | |
| methanol<br>67-56-1 | General population | inhalation | Acute/short term exposure - local effects | | 50 mg/m3 | |
| methanol<br>67-56-1 | General population | dermal | Long term exposure - systemic effects | | 8 mg/kg | |
| methanol<br>67-56-1 | General population | dermal | Acute/short term exposure - systemic effects | | 8 mg/kg | |
| methanol<br>67-56-1 | General population | oral | Long term exposure - systemic effects | | 8 mg/kg | |

| | | | | | | |
|---|---|---|---|---|---|---|
| methanol<br>67-56-1 | General population | oral | Acute/short term exposure - systemic effects | | 8 mg/kg | |

**Biological Exposure Indices:**

| Ingredient [Regulated substance] | Parameters | Biological specimen | Sampling time | Conc. | Basis of biol. exposure index | Remark | Additional Information |
|---|---|---|---|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2<br>[2-BUTOXYETHANOL] | Butoxyacetic acid | Creatinine in urine | Sampling time: End of shift. | | UKEH40BMGV | | |

**8.2. Exposure controls:**

Respiratory protection:
Suitable breathing mask when there is inadequate ventilation.
Combination filter: ABEKP (EN 14387)
This recommendation should be matched to local conditions.

Hand protection:
Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.
In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
material thickness > 0.4 mm
Perforation time > 30 minutes
In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.
Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | liquid<br>liquid, clear<br>clear |
| Odor | of solvent |
| Odour threshold | No data available / Not applicable |
| pH<br>(20 °C (68 °F)) | 7 |
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | 78,4 - 115,4 °C (173.1 - 239.7 °F) |
| Flash point | 12 °C (53.6 °F) |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | 5,8 kPa |

| | |
|---|---|
| Relative vapour density: | No data available / Not applicable |
| Density<br>(20 °C (68 °F)) | 0,774 g/cm3 |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative)<br>(23 °C (73.4 °F); Solvent: Water) | Partially soluble |
| Solubility (qualitative)<br>(23 °C (73.4 °F); Solvent: Acetone) | Soluble |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity<br>() | Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

**9.2. Other information**

No data available / Not applicable

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
None if used for intended purpose.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
None if used for intended purpose.

**10.5. Incompatible materials**
None if used properly.

**10.6. Hazardous decomposition products**
None known

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| n-butyl acetate<br>123-86-4 | LD50 | 10.760 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| Ethanol<br>64-17-5 | LD50 | 10.470 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| 2-Butoxyethanol<br>111-76-2 | Acute toxicity estimate (ATE) | 1.200 mg/kg | | Expert judgement |
| methanol<br>67-56-1 | Acute toxicity estimate (ATE) | 300 mg/kg | | Expert judgement |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | LD50 | > 14.112 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| Ethanol<br>64-17-5 | LD50 | > 2.000 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-Butoxyethanol<br>111-76-2 | LD0 | > 2.000 mg/kg | guinea pig | OECD Guideline 402 (Acute Dermal Toxicity) |
| 2-Butoxyethanol<br>111-76-2 | LD50 | > 2.000 mg/kg | guinea pig | OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

The toxicity of the product is due to its narcotic effect after inhalation.
In the event of protracted or repeated exposure, damage to health cannot be excluded.

| Hazardous substances<br>CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | LC50 | > 20 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| n-butyl acetate<br>123-86-4 | LC50 | > 23,4 mg/l | mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Ethanol<br>64-17-5 | LC50 | 124,7 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | not irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Ethanol<br>64-17-5 | not irritating | | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| 2-Butoxyethanol<br>111-76-2 | irritating | 4 h | rabbit | EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion) |
| methanol<br>67-56-1 | not irritating | 20 h | rabbit | BASF Test |

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Ethanol<br>64-17-5 | irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| 2-Butoxyethanol<br>111-76-2 | irritating | 24 h | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| methanol<br>67-56-1 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | not sensitising | Guinea pig maximisation test | guinea pig | not specified |
| Ethanol<br>64-17-5 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Ethanol<br>64-17-5 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| 2-Butoxyethanol<br>111-76-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| methanol<br>67-56-1 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result | Type of study /<br>Route of administration | Metabolic activation /<br>Exposure time | Species | Method |
|---|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| n-butyl acetate<br>123-86-4 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Ethanol<br>64-17-5 | negative | bacterial reverse mutation assay (e.g Ames test) | | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Ethanol<br>64-17-5 | negative | in vitro mammalian chromosome aberration test | without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Ethanol<br>64-17-5 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| 2-Butoxyethanol<br>111-76-2 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| 2-Butoxyethanol<br>111-76-2 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| 2-Butoxyethanol<br>111-76-2 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| methanol<br>67-56-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| methanol<br>67-56-1 | negative | in vitro mammalian cell micronucleus test | without | | not specified |
| methanol<br>67-56-1 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| n-butyl acetate<br>123-86-4 | negative | oral: gavage | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Ethanol<br>64-17-5 | negative | | | | OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| 2-Butoxyethanol<br>111-76-2 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| methanol<br>67-56-1 | negative | intraperitoneal | | mouse | equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components<br>CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|---|---|---|---|---|---|---|
| Ethanol<br>64-17-5 | not carcinogenic | | | | | Expert judgement |
| methanol<br>67-56-1 | not carcinogenic | inhalation: vapour | 18 m<br>19 h/d | mouse | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|---|---|---|---|
| Ethanol<br>64-17-5 | NOAEL P 13.800 mg/kg | Two generation study | oral: unspecified | mouse | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| 2-Butoxyethanol<br>111-76-2 | NOAEL P 720 mg/kg<br>NOAEL F1 720 mg/kg<br>NOAEL F2 720 mg/kg | Two generation study | oral: drinking water | mouse | not specified |
| methanol<br>67-56-1 | NOAEL P 1,3 mg/l<br>NOAEL F1 0,13 mg/l<br>NOAEL F2 0,13 mg/l | Two generation study | inhalation | rat | OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | NOAEL 125 mg/kg | oral: gavage | 6 (interim sacrifice) or 13 w<br>daily | rat | EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents) |
| 2-Butoxyethanol<br>111-76-2 | NOAEL 0,121 mg/l | inhalation | 42 or 90 days<br>6 hours/day, 5 days/week | rat | not specified |
| 2-Butoxyethanol<br>111-76-2 | NOAEL < 69 mg/kg | oral: drinking water | 90 d<br>continous | rat | equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| methanol<br>67-56-1 | NOAEL 6,63 mg/l | inhalation | 4 weeks<br>6 h/d, 5 d/w | rat | not specified |
| methanol<br>67-56-1 | NOAEL 0,13 mg/l | inhalation | 12 m<br>20 h/d | rat | equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

**Aspiration hazard:**

No data available.

## SECTION 12: Ecological information

**General ecological information:**
Do not empty into drains, soil or bodies of water.

### 12.1. Toxicity

**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | LC50 | > 1 - 10 mg/l | | | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| n-butyl acetate<br>123-86-4 | LC50 | 18 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Ethanol<br>64-17-5 | LC50 | 14.200 mg/l | 96 h | Pimephales promelas | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| Ethanol<br>64-17-5 | NOEC | 250 mg/l | 120 h | Danio rerio | OECD Guideline 212 (Fish, Short-term Toxicity Test on Embryo and Sac-Fry Stages) |
| 2-Butoxyethanol<br>111-76-2 | LC50 | 1.474 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Butoxyethanol<br>111-76-2 | NOEC | > 100 mg/l | 21 d | Brachydanio rerio (new name: Danio rerio) | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| methanol<br>67-56-1 | LC50 | 15.400 mg/l | 96 h | Lepomis macrochirus | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| methanol<br>67-56-1 | NOEC | 7.900 mg/l | 200 h | Oryzias latipes | OECD Guideline 210 (fish early lite stage toxicity test) |

**Toxicity (Daphnia):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | EC50 | 3 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| n-butyl acetate<br>123-86-4 | EC50 | 44 mg/l | 48 h | Daphnia sp. | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Ethanol<br>64-17-5 | EC50 | 5.012 mg/l | 48 h | Ceriodaphnia dubia | other guideline: |
| 2-Butoxyethanol<br>111-76-2 | EC50 | 1.550 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| methanol<br>67-56-1 | EC50 | 18.260 mg/l | 96 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**Chronic toxicity to aquatic invertebrates**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | NOEC | 23,2 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Ethanol<br>64-17-5 | NOEC | 9,6 mg/l | 9 d | Daphnia magna | not specified |
| 2-Butoxyethanol<br>111-76-2 | NOEC | 100 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | EC50 | > 1 - 10 mg/l | | | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| n-butyl acetate<br>123-86-4 | EC50 | 674,7 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| n-butyl acetate<br>123-86-4 | EC10 | 295,5 mg/l | 72 h | Scenedesmus subspicatus (new name: Desmodesmus subspicatus) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethanol<br>64-17-5 | EC50 | 275 mg/l | 72 h | Chlorella vulgaris | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Ethanol<br>64-17-5 | EC10 | 11,5 mg/l | 72 h | Chlorella vulgaris | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Butoxyethanol<br>111-76-2 | EC50 | 1.840 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Butoxyethanol<br>111-76-2 | NOEC | 286 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| methanol<br>67-56-1 | EC50 | 22.000 mg/l | 96 h | Selenastrum capricomutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity to microorganisms**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| n-butyl acetate<br>123-86-4 | IC50 | 356 mg/l | 40 h | Ciliate (Tetrahymena pyriformis) | other guideline: |
| Ethanol<br>64-17-5 | IC50 | > 1.000 mg/l | 3 h | activated sludge | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| 2-Butoxyethanol<br>111-76-2 | EC0 | 1.000 mg/l | 30 min | | not specified |
| methanol<br>67-56-1 | IC50 | > 1.000 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |

**12.2. Persistence and degradability**

| Hazardous substances<br>CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | readily biodegradable | aerobic | 98 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| n-butyl acetate<br>123-86-4 | readily biodegradable | aerobic | 83 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| Ethanol<br>64-17-5 | readily biodegradable | aerobic | 80 - 85 % | 30 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| 2-Butoxyethanol<br>111-76-2 | readily biodegradable | aerobic | 73 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |
| methanol<br>67-56-1 | readily biodegradable | aerobic | 82 - 92 % | 30 d | EU Method C.4-E (Determination of the "Ready" Biodegradability Closed Bottle Test) |

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

| Hazardous substances<br>CAS-No. | LogPow | Temperature | Method |
|---|---|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | 4 - 5,7 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| n-butyl acetate<br>123-86-4 | 2,3 | 25 °C | OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method) |
| Ethanol<br>64-17-5 | -0,35 | 24 °C | not specified |
| 2-Butoxyethanol<br>111-76-2 | 0,81 | 25 °C | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |
| methanol<br>67-56-1 | -0,77 | | other guideline: |

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No. | PBT/ vPvB |
|---|---|
| Hydrocarbons, C6, isoalkanes, <5% n-hexane<br>64742-49-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| n-butyl acetate<br>123-86-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Ethanol<br>64-17-5 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| 2-Butoxyethanol<br>111-76-2 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| methanol<br>67-56-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Product disposal:
Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:
Use packages for recycling only when totally empty.

Waste code
140603

## SECTION 14: Transport information

**14.1. UN number**

| | |
|---|---|
| ADR | 1993 |
| RID | 1993 |
| ADN | 1993 |
| IMDG | 1993 |
| IATA | 1993 |

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR | FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-9,Butylacetate,Ethanol) |
| RID | FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-9,Butylacetate,Ethanol) |
| ADN | FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-9,Butylacetate,Ethanol) |
| IMDG | FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C7-9,Butylacetate) |
| IATA | Flammable liquid, n.o.s. (Hydrocarbons, C7-9,Butylacetate,Ethanol) |

**14.3. Transport hazard class(es)**

| | |
|---|---|
| ADR | 3 |
| RID | 3 |
| ADN | 3 |
| IMDG | 3 |
| IATA | 3 |

**14.4. Packing group**

| | |
|---|---|
| ADR | II |
| RID | II |
| ADN | II |
| IMDG | II |
| IATA | II |

**14.5. Environmental hazards**

| | |
|---|---|
| ADR | Environmentally Hazardous |
| RID | Environmentally Hazardous |
| ADN | Environmentally Hazardous |
| IMDG | Marine pollutant |
| IATA | not applicable |

**14.6. Special precautions for user**

| | |
|---|---|
| ADR | Special provision 640D<br>Tunnelcode: (D/E) |
| RID | Special provision 640D |
| ADN | Special provision 640D |
| IMDG | not applicable |
| IATA | not applicable |

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

not applicable

## SECTION 15: Regulatory information

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

| | |
|---|---|
| Ozone Depleting Substance (ODS) (Regulation 1005/2009/EC): | Not applicable |
| Prior Informed Consent (PIC) (Regulation 649/2012/EC): | Not applicable |
| Persistent Organic Pollutants (POPs) (Regulation 2019/1021/EC) : | Not applicable |

**EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC)**: Not applicable

**List of ingredients according to Detergents regulation.**

Hydrocarbons, C6, isoalkanes, <5% n-hexane
n-butyl acetate
Ethanol
Remainder
Naphtha (Petroleum), hydrodesulfurized heavy, <0,1% Benzene
2-Butoxyethanol
methanol

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapor.
H226 Flammable liquid and vapor.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H370 Causes damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

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