# SAFETY DATA SHEET

# MOBIHEL Base MIX

| Version | Revision Date: | SDS Number: | Date of last issue: 19.07.2023 |
|---|---|---|---|
| 2.0 | 28.11.2023 | MAT0GA05_007 IL/EN | Date of first issue: 19.07.2023 |

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

### 1.1 Product identifier

Trade name : MOBIHEL Base MIX

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

Use of the Substance/Mixture : Coatings and paints, thinners, paint removers

Recommended restrictions on use : Reserved for industrial and professional use.

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

Company : KANSAI HELIOS Slovenija d.o.o.
Količevo 65
1230 Domžale
Slovenia

Telephone Company : 386 (1) 722 4383

Telefax Company : 386 (1) 722 4310

Responsible/issuing person : 386 (1) 722 4383
productsafety@kansai-helios.si

### 1.4 Emergency telephone number

Ambulance (972) 101

Israel Poison Information Center +972 4 854 19 00

## 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. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Reproductive toxicity, Category 2 | H361: Suspected of damaging fertility or the unborn child. |
| Specific target organ toxicity - single ex- | H336: May cause drowsiness or dizziness. |

posure, Category 3, Central nervous system

### 2.2 Label elements

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

Hazard pictograms :

Signal word : Danger

Hazard statements :

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.

Precautionary statements :

**Prevention:**

P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing mist or vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous components which must be listed on the label:

n-butyl acetate
butan-1-ol
butyl glycollate
Fatty acids, C14-18 and C16-18-unsatd., maleated
formaldehyde
maleic anhydride

**Additional Labelling**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 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

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|
| n-butyl acetate | 123-86-4<br><br>204-658-1<br>607-025-00-1<br>01-2119485493-29 | Flam. Liq. 3; H226<br>STOT SE 3; H336 (Central nervous system) | >= 30 - < 50 |
| 1-butanol | 71-36-3<br><br>200-751-6<br>603-004-00-6<br>01-2119484630-38 | Flam. Liq. 3; H226<br>Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H336 (Central nervous system)<br>STOT SE 3; H335 (Respiratory system) | >= 5 - < 10 |
| butyl glycollate | 7397-62-8<br><br>230-991-7<br>01-2119514685-36 | Eye Dam. 1; H318<br>Repr. 2; H361 | >= 3 - < 10 |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7<br><br>905-562-9<br>01-2119555267-33 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 (Respiratory system)<br>STOT RE 2; H373<br>Asp. Tox. 1; H304 | >= 1 - < 10 |
| 2-butoxyethyl acetate | 112-07-2<br><br>203-933-3<br>607-038-00-2<br>01-2119475112-47 | Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312 | >= 1 - < 10 |
| hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics | 64742-49-0<br><br><br>01-2119471843-32 | Flam. Liq. 3; H226<br>STOT SE 3; H336 (Central nervous system)<br>Asp. Tox. 1; H304 | >= 2.5 - < 10 |

| | | | |
|---|---|---|---|
| | | Aquatic Chronic 3; H412 | |
| 2-methylpropan-1-ol | 78-83-1<br><br>201-148-0<br>603-108-00-1<br>01-2119484609-23 | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>STOT SE 3; H336 (Central nervous system)<br>STOT SE 3; H335 (Respiratory system) | >= 1 - < 3 |
| fatty acids, C14-18 and C16-18-unsatd., maleated | 85711-46-2<br><br>288-306-2<br>01-2119976378-19 | Skin Irrit. 2; H315<br>Skin Sens. 1; H317 | >= 0.1 - < 1 |
| formaldehyde | 50-00-0<br><br>200-001-8<br>605-001-00-5<br>01-2119488953-20 | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 3; H311<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Muta. 2; H341<br>Carc. 1B; H350<br>STOT SE 3; H335 (Respiratory system) | >= 0.1 - < 0.2 |
| maleic anhydride | 108-31-6<br><br>203-571-6<br>607-096-00-9<br>01-2119472428-31 | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Resp. Sens. 1; H334<br>STOT RE 1; H372 (Respiratory system) | >= 0.001 - < 0.1 |
| Substances with a workplace exposure limit : | | | |
| (2-methoxymethylethoxy)propanol | 34590-94-8<br><br>252-104-2<br>01-2119450011-60 | | >= 1 - < 10 |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical

advice.

| | | |
|---|---|---|
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes. |
| In case of eye contact | : | Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed | : | Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |

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

| | | |
|---|---|---|
| Risks | : | Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye damage.<br>May cause drowsiness or dizziness.<br>Suspected of damaging fertility or the unborn child. |

### 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 | : | Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet |

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

| | | |
|---|---|---|
| Specific hazards during fire-fighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | No hazardous combustion products are known |

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
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).

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to 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.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

Consult the technical guidelines for the use of this substance/mixture.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|---|---|---|
| n-butyl acetate | 123-86-4 | STEL | 150 ppm<br>723 mg/m3 | 2019/1831/EU |
| | Further information: Indicative | | | |
| | | TWA | 50 ppm<br>241 mg/m3 | 2019/1831/EU |
| | Further information: Indicative | | | |
| | | TWA | 50 ppm | ACGIH |
| | | STEL | 150 ppm | ACGIH |
| butan-1-ol | 71-36-3 | TWA | 20 ppm | ACGIH |
| reaction mixture of | 1330-20-7 | TLV-TWA | 100 ppm | IL OEL |

| | | | | |
|---|---|---|---|---|
| ethylbenzene, m-xylene and p-xylene | | | | |
| | | TLV-C | 150 mg/m3 | IL OEL |
| | | TWA | 50 ppm<br>221 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 20 ppm | ACGIH |
| 2-butoxyethyl acetate | 112-07-2 | TWA | 20 ppm<br>133 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 50 ppm<br>333 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 20 ppm | ACGIH |
| (2-Methoxymethylethoxy)propanol | 34590-94-8 | TWA | 50 ppm<br>308 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 50 ppm | ACGIH |
| 2-methylpropan-1-ol | 78-83-1 | TWA | 50 ppm | ACGIH |
| formaldehyde | 50-00-0 | TLV-TWA | 0.2 ppm | IL OEL |
| | | TLV-C | 0.3 ppm | IL OEL |
| | | TWA | 0.3 ppm<br>0.37 mg/m3 | 2004/37/EC |
| | Further information: Dermal sensitisation, Carcinogens or mutagens | | | |
| | | STEL | 0.6 ppm<br>0.74 mg/m3 | 2004/37/EC |
| | Further information: Dermal sensitisation, Carcinogens or mutagens | | | |
| | | TWA | 0.1 ppm | ACGIH |
| | | STEL | 0.3 ppm | ACGIH |
| maleic anhydride | 108-31-6 | TWA (Inhalable fraction and vapor) | 0.01 mg/m3 | ACGIH |
| n-butyl acetate | 123-86-4 | STEL | 150 ppm<br>723 mg/m3 | 2019/1831/EU |
| | Further information: Indicative | | | |
| | | TWA | 50 ppm<br>241 mg/m3 | 2019/1831/EU |
| | Further information: Indicative | | | |
| | | TWA | 50 ppm | ACGIH |
| | | STEL | 150 ppm | ACGIH |
| butan-1-ol | 71-36-3 | TWA | 20 ppm | ACGIH |

| | | | | |
|---|---|---|---|---|
| Rutile (TiO2) | 1317-80-2 | TWA (Respirable particulate matter) | 0.2 mg/m3 (Titanium dioxide) | ACGIH |
| | | TWA (Respirable particulate matter) | 2.5 mg/m3 (Titanium dioxide) | ACGIH |
| Mica | 12001-26-2 | TWA (Respirable particulate matter) | 0.1 mg/m3 | ACGIH |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7 | TLV-TWA | 100 ppm | IL OEL |
| | | TLV-C | 150 mg/m3 | IL OEL |
| | | TWA | 50 ppm<br>221 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 20 ppm | ACGIH |
| 2-butoxyethyl acetate | 112-07-2 | TWA | 20 ppm<br>133 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 50 ppm<br>333 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 20 ppm | ACGIH |
| (2-Methoxymethylethoxy)propanol | 34590-94-8 | TWA | 50 ppm<br>308 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 50 ppm | ACGIH |
| titanium dioxide | 13463-67-7 | TWA (Respirable particulate matter) | 0.2 mg/m3 (Titanium dioxide) | ACGIH |
| | | TWA (Respirable particulate matter) | 2.5 mg/m3 (Titanium dioxide) | ACGIH |
| 2-methylpropan-1-ol | 78-83-1 | TWA | 50 ppm | ACGIH |
| formaldehyde | 50-00-0 | TLV-TWA | 0.2 ppm | IL OEL |
| | | TLV-C | 0.3 ppm | IL OEL |
| | | TWA | 0.3 ppm<br>0.37 mg/m3 | 2004/37/EC |
| | Further information: Dermal sensitisation, Carcinogens or mutagens | | | |
| | | STEL | 0.6 ppm | 2004/37/EC |

| | | | | |
|---|---|---|---|---|
| | | | 0.74 mg/m3 | |
| | Further information: Dermal sensitisation, Carcinogens or mutagens | | | |
| | | TWA | 0.1 ppm | ACGIH |
| | | STEL | 0.3 ppm | ACGIH |
| maleic anhydride | 108-31-6 | TWA (Inhalable fraction and vapor) | 0.01 mg/m3 | ACGIH |

**Biological occupational exposure limits**

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|---|---|---|---|---|
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7 | methyl hippuric acid: 1.5 g/g creatinine (Urine) | | IL BEI |
| | | Methylhippuric acids: 1.5 g/g creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | ACGIH BEI |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | 1330-20-7 | methyl hippuric acid: 1.5 g/g creatinine (Urine) | | IL BEI |
| | | Methylhippuric acids: 1.5 g/g creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | ACGIH BEI |

**Derived No Effect Level (DNEL)**

**according to Regulation (EC) No. 1907/2006:**

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|---|---|---|---|---|
| n-butyl acetate | Workers | Inhalation | Acute systemic effects | 600 mg/m3 |
| | Workers | Inhalation | Acute local effects | 600 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 48 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 300 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 300 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 300 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 12 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 35.7 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 3.4 mg/kg bw/day |
| | Consumers | Dermal | Acute systemic effects | 6 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 2 mg/kg bw/day |
| | Consumers | Oral | Acute systemic effects | 2 mg/kg bw/day |

| | | | | |
|---|---|---|---|---|
| | Workers | Dermal | Long-term systemic effects | 7 mg/kg bw/day |
| | Workers | Dermal | Acute systemic effects | 11 mg/kg bw/day |
| butan-1-ol | Workers | Inhalation | Long-term local effects | 310 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 55.357 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 155 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 3.125 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 1.562 mg/kg bw/day |
| Rutile (TiO2) | Consumers | Oral | Long-term systemic effects | 700 mg/kg bw/day |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Workers | Inhalation | Long-term systemic effects | 77 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 65.3 mg/m3 |
| | Workers | Inhalation | Acute systemic effects | 442 mg/m3 |
| | Workers | Inhalation | Acute local effects | 289 mg/m3 |
| | Consumers | Inhalation | Acute systemic effects | 260 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 221 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 14.8 mg/m3 |
| | Consumers | Inhalation | Acute local effects | 260 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 108 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 16 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 180 mg/kg bw/day |
| butyl glycollate | Workers | Inhalation | Long-term systemic effects | 58.8 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 17.4 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 17.4 mg/m3 |
| | Consumers | Dermal | Long-term local effects | 0.11 mg/cm2 |
| | Consumers | Oral | Long-term systemic effects | 4.2 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 41.7 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 25 mg/kg bw/day |
| 2-butoxyethyl acetate | Workers | Inhalation | Long-term systemic effects | 333 mg/m3 |

| | | | | |
|---|---|---|---|---|
| | Consumers | Oral | Long-term systemic effects | 86 mg/kg bw/day |
| | Workers | Dermal | Long-term systemic effects | 169 mg/kg bw/day |
| | Workers | Dermal | Acute systemic effects | 120 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 102 mg/kg bw/day |
| | Consumers | Dermal | Acute systemic effects | 72 mg/kg bw/day |
| | Consumers | Oral | Acute systemic effects | 36 mg/kg bw/day |
| hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics | Workers | Inhalation | Long-term systemic effects | 871 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 185 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 208 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 125 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 125 mg/kg bw/day |
| (2-Methoxymethyleth-oxy)propanol | Workers | Inhalation | Long-term systemic effects | 308 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 37.2 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 283 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 121 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 36 mg/kg bw/day |
| titanium dioxide | Workers | Inhalation | Long-term local effects | 10 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 700 mg/kg bw/day |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | Workers | Dermal | Long-term systemic effects | 3.33 mg/kg bw/day |
| | Consumers | Dermal | Long-term systemic effects | 1.67 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 1.67 mg/kg bw/day |

**Predicted No Effect Concentration (PNEC)**

**according to Regulation (EC) No. 1907/2006:**

| Substance name | Environmental Compartment | Value |
|---|---|---|
| n-butyl acetate | Soil | 0.0903 mg/kg dry weight (d.w.) |

| | | |
|---|---|---|
| | Marine water | 0.018 mg/l |
| | Fresh water | 0.18 mg/l |
| | Marine sediment | 0.0981 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0.981 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 35.6 mg/l |
| | Intermittent use/release | 0.36 mg/l |
| butan-1-ol | Soil | 0.0166 mg/kg dry weight (d.w.) |
| | Marine water | 0.0082 mg/l |
| | Fresh water | 0.082 mg/l |
| | Marine sediment | 0.0324 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0.324 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 2476 mg/l |
| | Intermittent use/release | 2.25 mg/l |
| Rutile (TiO2) | Soil | 100 mg/kg dry weight (d.w.) |
| | Marine water | 1 mg/l |
| | Fresh water | 0.127 mg/l |
| | Marine sediment | 100 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 1000 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 100 mg/l |
| | Intermittent use/release | 0.61 mg/l |
| reaction mixture of ethylbenzene, m-xylene and p-xylene | Soil | 2.31 mg/kg dry weight (d.w.) |
| | Marine water | 0.327 mg/l |
| | Fresh water | 0.327 mg/l |
| | Marine sediment | 12.46 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 12.46 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 6.58 mg/l |
| | Intermittent use/release | 0.327 mg/l |
| butyl glycollate | Soil | 0.0112 mg/kg dry weight (d.w.) |
| | Marine water | 0.005 mg/l |
| | Fresh water | 0.05 mg/l |
| | Marine sediment | 0.0203 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 0.203 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 232 mg/l |
| | Intermittent use/release | 0.5 mg/l |
| 2-butoxyethyl acetate | Soil | 0.415 mg/kg dry weight (d.w.) |
| | Marine water | 0.0304 mg/l |
| | Fresh water | 0.304 mg/l |
| | Marine sediment | 0.203 mg/kg dry |

| | | |
|---|---|---|
| | | weight (d.w.) |
| | Fresh water sediment | 2.03 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 90 mg/l |
| | Intermittent use/release | 0.56 mg/l |
| (2-Methoxymethylethoxy)propanol | Soil | 2.74 mg/kg dry weight (d.w.) |
| | Marine water | 1.9 mg/l |
| | Fresh water | 19 mg/l |
| | Marine sediment | 7.02 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 70.2 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 4168 mg/l |
| | Intermittent use/release | 190 mg/l |
| titanium dioxide | Soil | 100 mg/kg dry weight (d.w.) |
| | Marine water | 0.0184 mg/l |
| | Fresh water | 0.184 mg/l |
| | Marine sediment | 100 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 1000 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 100 mg/l |
| | Intermittent use/release | 0.193 mg/l |
| 2-methylpropan-1-ol | Soil | 0.0765 mg/kg dry weight (d.w.) |
| | Marine water | 0.04 mg/l |
| | Fresh water | 0.4 mg/l |
| | Marine sediment | 0.156 mg/kg dry weight (d.w.) |
| | Fresh water sediment | 1.56 mg/kg dry weight (d.w.) |
| | Sewage treatment plant | 10 mg/l |
| | Intermittent use/release | 11 mg/l |
| Fatty acids, C14-18 and C16-18-unsatd., maleated | Sewage treatment plant | 100 mg/l |

### 8.2 Exposure controls

**Personal protective equipment**

Eye/face protection : Equipment should conform to EN 166
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Gloves : Nitrile rubber (> 0,1 mm; < 60 min); DIN EN374
butyl-rubber (> 0,6 mm; < 240 min); DIN EN374
Viton® (> 0,6 mm; < 240 min); DIN EN374

| | | |
|---|---|---|
| | | \| PE laminate (> 0,1 mm; < 240 min); DIN EN374 \| |
| Remarks | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves.<br>Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. |
| Skin and body protection | : | Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the 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. |
| Filter type | : | Combined particulates and organic vapour type (A-P) |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | Different colour shades |
| Odour | : | solvent-like |
| Odour Threshold | : | No data available |
| pH | : | Not applicable |
| Melting point/freezing point | : | -78.0 °C<br>(calculation method (principal components, lowest value)) |
| Boiling point/boiling range | : | 118 °C (calculation method (principal components, lowest value)) |
| Flash point | : | 26 °C<br>Method: ISO 3679, closed cup |
| Flammability (solid, gas) | : | Static-accumulating flammable liquid., Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | 11.3 %(V) (calculation method (principal components, highest value)) |
| Lower explosion limit / Lower flammability limit | : | 1.2 %(V) (calculation method (principal components, highest value)) |
| Vapour pressure | : | < 1,100 hPa (calculation method (principal components, high- |

| | | |
|---|---|---|
| | | est value))<br>(50 °C) |
| Relative vapour density | : | No data available |
| Relative density | : | No data available |
| Density | : | 0.915 - 1.145 g/cm3 |
| Solubility(ies) | | |
| Water solubility | : | immiscible, partly soluble |
| Solubility in other solvents | : | Description: miscible with most organic solvents |
| Partition coefficient: n-octanol/water | : | log Pow: 1.81 (calculation method (principal components, highest value)) |
| Auto-ignition temperature | : | 343 °C (calculation method (principal components, highest value)) |
| Decomposition temperature | : | No decomposition if stored and applied as directed.<br>Hazardous decomposition products formed under fire conditions. |
| Viscosity | | |
| Viscosity, kinematic | : | > 20.5 mm2/s (40 °C) |
| Flow time | : | 80 - 90 s at 20 °C<br>Cross section: 4 mm<br>Method: DIN 53211 |
| Explosive properties | : | Not applicable |
| Oxidizing properties | : | Sustains combustion |

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

| | | |
|---|---|---|
| Hazardous reactions | : | No decomposition if stored and applied as directed.<br><br>Vapours may form explosive mixture with air. |

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with strong acids and bases.

### 10.6 Hazardous decomposition products

Adequate ventilation is required.
Heating can release vapours which can be ignited.
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

Not classified based on available information.

**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

**Components:**

**n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): >= 10,760 mg/kg

Acute dermal toxicity : LD50 (Rabbit): >= 5,000 mg/kg

**butan-1-ol:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 Oral (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Acute oral toxicity : LD50 Oral (Rat): >= 8,700 mg/kg

| | | |
|---|---|---|
| Acute inhalation toxicity | : | LC50 (Rat): 27.14 mg/l<br>Test atmosphere: vapour |
| Acute dermal toxicity | : | Assessment: The component/mixture is moderately toxic after single contact withskin. |

**2-butoxyethyl acetate:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Assessment: The component/mixture is moderately toxic after single ingestion.<br><br>LD50 Oral (Rat): >= 2,400 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): >= 50 mg/l<br>Exposure time: 2 h<br>Test atmosphere: vapour |
| Acute dermal toxicity | : | Assessment: The component/mixture is moderately toxic after single contact withskin.<br><br>LD50 (Rabbit): >= 1,500 mg/kg |

**2-methylpropan-1-ol:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 Oral (Rat): >= 2,460 mg/kg |
| Acute dermal toxicity | : | LD50 (Rabbit): >= 3,400 mg/kg |

**formaldehyde:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Assessment: The component/mixture is toxic after single ingestion. |
| Acute inhalation toxicity | : | Test atmosphere: vapour<br>Assessment: The component/mixture is highly toxic after short term inhalation. |
| Acute dermal toxicity | : | Assessment: The component/mixture is toxic after single contact with skin. |

**maleic anhydride:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Assessment: The component/mixture is moderately toxic after single ingestion. |

**(2-Methoxymethylethoxy)propanol:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Assessment: The substance or mixture has no acute oral toxicity |
| Acute inhalation toxicity | : | Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity | : | Assessment: The substance or mixture has no acute dermal |

toxicity

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks : Extremely corrosive and destructive to tissue.

**Components:**

**butan-1-ol:**

Result : irritating

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : irritating

**2-methylpropan-1-ol:**

Result : irritating

**Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Result : irritating

**formaldehyde:**

Result : Corrosive after 3 minutes to 1 hour of exposure

**maleic anhydride:**

Result : Corrosive after 3 minutes to 1 hour of exposure

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**butan-1-ol:**

Result : Corrosive

**butyl glycollate:**

Result : Corrosive

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Result : Eye irritation

**2-methylpropan-1-ol:**

Result : Corrosive

**Respiratory or skin sensitisation**

**Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

Not classified based on available information.

**Product:**

Remarks : Causes sensitisation.

**Components:**

**Fatty acids, C14-18 and C16-18-unsatd., maleated:**

Result : Probability or evidence of skin sensitisation in humans

**formaldehyde:**

Result : Probability or evidence of skin sensitisation in humans

**maleic anhydride:**

Result : Probability of respiratory sensitisation in humans based on animaltesting

Result : Probability or evidence of skin sensitisation in humans

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**formaldehyde:**

Germ cell mutagenicity- Assessment : In vitro tests showed mutagenic effects

**Carcinogenicity**

Not classified based on available information.

**Components:**

**formaldehyde:**

Carcinogenicity - Assessment : Possible human carcinogen

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:**

**butyl glycollate:**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility,and/or on development, based on animal experiments.

**STOT - single exposure**

May cause drowsiness or dizziness.

**Components:**

**n-butyl acetate:**

Assessment : May cause drowsiness or dizziness.

**butan-1-ol:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause respiratory irritation.

**hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

Assessment : May cause drowsiness or dizziness.

**2-methylpropan-1-ol:**

Assessment : May cause drowsiness or dizziness.

Assessment : May cause respiratory irritation.

**formaldehyde:**

Assessment : May cause respiratory irritation.

**STOT - repeated exposure**

Not classified based on available information.

**Components:**

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

**maleic anhydride:**

Assessment : May cause damage to organs through prolonged or repeated exposure.

**Aspiration toxicity**

Not classified based on available information.

**Components:**

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**
May be fatal if swallowed and enters airways.

**hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:**
May be fatal if swallowed and enters airways.

**Further information**

**Product:**

| | | |
|---|---|---|
| Remarks | : | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.<br>Concentrations substantially above the TLV value may cause narcotic effects.<br>Solvents may degrease the skin. |

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**n-butyl acetate:**

| | | |
|---|---|---|
| Toxicity to algae/aquatic plants | : | NOEC (Desmodesmus subspicatus (green algae)): > 200 mg/l |
| | | EC50 (Desmodesmus subspicatus (green algae)): >= 647.7 mg/l<br>Exposure time: 72 h |
| Toxicity to microorganisms | : | IC50 (Tetrahymena pyriformis): 356 mg/l<br>Exposure time: 40 h |

**butan-1-ol:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Fish): > 1,000 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia (water flea)): > 1,000 mg/l |
| Toxicity to microorganisms | : | EC50 (Bacteria): > 1,000 mg/l |

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Fish): >= 1 - 10 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia (water flea)): >= 1 - 10 mg/l |
| Toxicity to microorganisms | : | EC50 (Bacteria): >= 1 - 100 mg/l |

**2-butoxyethyl acetate:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Fish): >= 31 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 (Daphnia (water flea)): >= 142.5 mg/l<br>Exposure time: 48 h |
| Toxicity to microorganisms | : | EC50 (Bacteria): >= 2,800 mg/l |

**hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, <2% aromatics:**

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Chronic aquatic toxicity | : | Harmful to aquatic life with long lasting effects. |

**2-methylpropan-1-ol:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Fish): > 100 mg/l<br>Exposure time: 96 h |

**maleic anhydride:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 : 75 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 10 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea) |

## 12.2 Persistence and degradability

**Components:**

**n-butyl acetate:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Biodegradable<br>Biodegradation: 83 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301D |
| Stability in water | : | Degradation half life: 78 d<br>pH: 8<br>Remarks: Hydrolyses slowly. |
| Photodegradation | : | Remarks: Decomposes rapidly in contact with light. |

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

| | | |
|---|---|---|
| Biodegradability | : | Remarks: Readily biodegradable. |
| Photodegradation | : | Remarks: Decomposes rapidly in contact with light. |

**2-butoxyethyl acetate:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Biodegradable |

**2-methylpropan-1-ol:**

Biodegradability : Result: Biodegradable

**maleic anhydride:**

Biodegradability : Result: Biodegradable
Biodegradation: 90 %
Exposure time: 25 d
Method: OECD Test Guideline 301B

Stability in water : Remarks: Hydrolyses readily.

Photodegradation :

### 12.3 Bioaccumulative potential

**Components:**

**n-butyl acetate:**

Bioaccumulation : Bioconcentration factor (BCF): 15
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 1.81

**butan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 0.785

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

Bioaccumulation : Bioconcentration factor (BCF): 25.9
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2.77 - 3.15

**2-butoxyethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1.51

**2-methylpropan-1-ol:**

Partition coefficient: n-octanol/water : log Pow: 0.79

**formaldehyde:**

Partition coefficient: n-octanol/water : log Pow: 0.35

**maleic anhydride:**

| | | |
|---|---|---|
| Bioaccumulation | : | Remarks: Bioaccumulation is unlikely. |
| Partition coefficient: n-octanol/water | : | log Pow: -2.61 (20 °C) |

**(2-Methoxymethylethoxy)propanol:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: -0.064 |

### 12.4 Mobility in soil

**Components:**

**reaction mixture of ethylbenzene, m-xylene and p-xylene:**

| | | |
|---|---|---|
| Distribution among environmental compartments | : | Koc: 537, log Koc: 2.73<br>Remarks: Moderately mobile in soils<br>The product evaporates from soil. |
| Stability in soil | : | Dissipation time: 23 d<br>Percentage dissipation: 50 % (DT50) |

**maleic anhydride:**

| | | |
|---|---|---|
| Mobility | : | Medium: Water<br>Content: 100 % |
| | : | Medium: Soil<br>Content: 0 % |
| Distribution among environmental compartments | : | Koc: 42, log Koc: 1.63 |

### 12.5 Results of PBT and vPvB assessment

**Product:**

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

### 12.6 Other adverse effects

**Product:**

| | | |
|---|---|---|
| Endocrine disrupting potential | : | 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. |
| Additional ecological information | : | No data available |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum. |

## SECTION 14: Transport information

### 14.1 UN number

| | | |
|---|---|---|
| **ADN** | : | UN 1263 |
| **ADR** | : | UN 1263 |
| **RID** | : | UN 1263 |
| **IMDG** | : | UN 1263 |
| **IATA** | : | UN 1263 |

### 14.2 UN proper shipping name

| | | |
|---|---|---|
| **ADN** | : | PAINT |
| **ADR** | : | PAINT |
| **RID** | : | PAINT |
| **IMDG** | : | PAINT |
| **IATA** | : | Paint |

### 14.3 Transport hazard class(es)

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

### 14.4 Packing group

**ADN**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 30 |
| Labels | : | 3 |

**ADR**

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

**RID**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | F1 |
| Hazard Identification Number | : | 30 |
| Labels | : | 3 |

**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

**ADN**

| | | |
|---|---|---|
| Environmentally hazardous | : | no |

**ADR**

| | | |
|---|---|---|
| Environmentally hazardous | : | no |

**RID**

| | | |
|---|---|---|
| Environmentally hazardous | : | no |

**IMDG**

| | | |
|---|---|---|
| Marine pollutant | : | 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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| H226 | : | Flammable liquid and vapour. |
| H301 | : | Toxic if swallowed. |
| H302 | : | Harmful if swallowed. |
| H304 | : | May be fatal if swallowed and enters airways. |
| 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. |
| H334 | : | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | : | May cause respiratory irritation. |
| H336 | : | May cause drowsiness or dizziness. |
| H341 | : | Suspected of causing genetic defects. |
| H350 | : | May cause cancer. |
| H361 | : | Suspected of damaging fertility or the unborn child. |
| H372 | : | Causes damage to organs through prolonged or repeated exposure if inhaled. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Asp. Tox. | : | Aspiration hazard |
| Carc. | : | Carcinogenicity |
| Eye Dam. | : | Serious eye damage |
| Eye Irrit. | : | Eye irritation |
| Flam. Liq. | : | Flammable liquids |
| Muta. | : | Germ cell mutagenicity |
| Repr. | : | Reproductive toxicity |
| Resp. Sens. | : | Respiratory sensitisation |
| Skin Corr. | : | Skin corrosion |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |

| | | |
|---|---|---|
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| STOT SE | : | Specific target organ toxicity - single exposure |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2004/37/EC | : | Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work |
| 2019/1831/EU | : | Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH BEI | : | ACGIH - Biological Exposure Indices (BEI) |
| IL BEI | : | Israel. Safety at Work Regulations - Annex III Biological Exposure Indices |
| IL OEL | : | Israel. Safety at Work Regulations (Environmental monitoring and biological monitoring of workers) |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |
| 2004/37/EC / STEL | : | Short term exposure limit |
| 2004/37/EC / TWA | : | Long term exposure limit |
| 2019/1831/EU / TWA | : | Limit Value - eight hours |
| 2019/1831/EU / STEL | : | Short term exposure limit |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| ACGIH / STEL | : | Short-term exposure limit |
| IL OEL / TLV-TWA | : | Threshold Limit Value - Time Weighted (TLV-TWA) |
| IL OEL / TLV-C | : | Threshold Limit Value - Ceiling (TLV-C) |

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; TECI -

Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Flam. Liq. 3 | H226 | Based on product data or assessment |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 2 | H361 | Calculation method |
| STOT SE 3 | H336 | Calculation method |

366923; 366935; 366971; 400207; 400262; 401108; 401924; 401951; 401983; 418200; 418201; 418202; 418203; 418204; 418205; 418206; 418207; 418208; 418209; 418210; 418211; 418212; 418213; 418214; 418215; 418216; 418217; 418218; 418219; 418220; 418221; 418222; 418223; 418224; 418225; 418226; 418227; 418228; 418229; 418230; 418231; 418232; 418233; 418234; 418235; 418236; 418237; 418238; 418239; 418241; 418242; 418243; 418244; 418245; 418246; 418247; 418248; 418249; 418250; 418251; 418252; 418253; 418255; 418445; 418446; 418479; 418480; 418481; 418482; 418485; 418486; 418923; 418924; 419220; 419223; 419593; 419844; 419845; 419846; 419847; 419848; 419849; 478654; 478964; 478984; 479010; 479019; 479020; 480909; 481596; 481598

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

IL / EN