**Ramsauer GmbH & Co KG**
**5350 Strobl / Wolfgangsee / AUSTRIA**



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

### 1.1 Product identifier

**Primer 150**

**UFI: -**

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

#### 1.2.1 Relevant uses

Primer

#### 1.2.2 Uses advised against

None known.

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

**Company**

Ramsauer GmbH & Co KG
Alte Bundesstraße 147
5350 Strobl / Wolfgangsee / AUSTRIA
Phone +43(0)6135 8205-0
Fax +43(0)6135 8205-250
Homepage www.ramsauer.eu
E-mail office@ramsauer.eu

**Address enquiries to**

**Technical information** office@ramsauer.eu

**Safety Data Sheet** sdb@chemiebuero.de

### 1.4 Emergency telephone number

**Advisory body** Österreich: +43(0) 1 406 43 43 (24h)

**Company**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Irrit. 2: H315 Causes skin irritation.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Repr. 2: H361d Suspected of damaging the unborn child.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
STOT SE 3: H336 May cause drowsiness or dizziness.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

**Hazard pictograms**



**Signal word** DANGER

**Contains:** Ethyl acetate

Toluene

Propan-2-ol

**Hazard statements**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H361d Suspected of damaging the unborn child.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P280 Wear protective gloves / eye protection / face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
P331 Do NOT induce vomiting.
P308+P311 IF exposed or concerned: Call a POISON CENTER / doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulation.

**Special labelling** Contains: Butyl methacrylate, Methyl methacrylate. EUH208 May produce an allergic reaction.

### 2.3 Other hazards

**Physico-chemical hazards** Contact with moisture liberates Methanol.

**Environmental hazards** Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

**Other hazards** Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

**not applicable**

### 3.2 Mixtures

**The product is a mixture.**

| Range [%] | Substance |
|---|---|
| 30 - <50 | Ethyl acetate |
| | CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX |
| | GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 - EUH066 |
| 20 - <40 | Toluene |
| | CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX |
| | GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361d - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336 |
| 20 - <40 | Propan-2-ol |
| | CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX |
| | GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336 |
| 1 - <3 | Butan-1-ol |
| | CAS: 71-36-3, EINECS/ELINCS: 200-751-6, EU-INDEX: 603-004-00-6, Reg-No.: 01-2119484630-38-XXXX |
| | GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H302 - Eye Dam. 1: H318 - STOT SE 3: H336 - Skin Irrit. 2: H315 - STOT SE 3: H335 |
| 0.1 - <1 | Methyl methacrylate |
| | CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX |
| | GHS/CLP: Flam. Liq. 2: H225 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - STOT SE 3: H335 |
| 0.1 - <1 | Butyl methacrylate |
| | CAS: 97-88-1, EINECS/ELINCS: 202-615-1, EU-INDEX: 607-033-00-5, Reg-No.: 01-2119486394-28-XXXX |
| | GHS/CLP: Flam. Liq. 3: H226 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - STOT SE 3: H335 |

**Comment on component parts** For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information** Remove contaminated soaked clothing immediately and dispose of safely.

**Inhalation** Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

**Skin contact** In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

**Ingestion** Consult a doctor immediately.
Do not induce vomiting.

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

Headache
Irritant effects
Allergic reactions
If swallowed or in the event of vomiting, risk of product entering the lungs.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**
Carbon dioxide.
Dry powder.
Foam.

**Extinguishing media that must not be used**
Full water jet.

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

In the event of fire the following can be released:
Carbon monoxide (CO)
Not combusted hydrocarbons.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Cool containers at risk with water spray jet.

## SECTION 6: Accidental release measures

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

Keep away from all sources of ignition.
Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provide good room ventilation even at ground level (vapours are heavier than air).

Keep away from all sources of ignition - Refrain from smoking.
Ignitable mixtures can be formed in the empty container.
Take precautionary measures against static discharges.
Vapours can form an explosive mixture with air.
Apparates and equipments must be conform in accordance to standard of storage and handling of flammable products.
Connect equipment to earth.

Do not eat, drink, smoke or take drugs at work.
Remove soiled or soaked clothing immediately.
Wash hands before breaks and after work.
Use barrier skin cream.

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

Provide solvent-resistant and impermeable floor.
Keep only in original container.
Prevent penetration into the ground.
Provide floor with bunding.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.
Keep container tightly closed.
Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

**Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)**

| Substance / EC LIMIT VALUES |
|---|
| Ethyl acetate |
| CAS: 141-78-6, EINECS/ELINCS: 205-500-4, EU-INDEX: 607-022-00-5, Reg-No.: 01-2119475103-46-XXXX |
| Eight hours: 200 ppm, 734 mg/m³ |
| Short-term (15-minute): 400 ppm, 1468 mg/m³ |
| Toluene |
| CAS: 108-88-3, EINECS/ELINCS: 203-625-9, EU-INDEX: 601-021-00-3, Reg-No.: 01-2119471310-51-XXXX |
| Eight hours: 50 ppm, 192 mg/m³, H |
| Short-term (15-minute): 100 ppm, 384 mg/m³ |
| Methyl methacrylate |
| CAS: 80-62-6, EINECS/ELINCS: 201-297-1, EU-INDEX: 607-035-00-6, Reg-No.: 01-2119452498-28-XXXX |
| Eight hours: 50 ppm |
| Short-term (15-minute): 100 ppm |
| Methanol |
| CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX |
| Eight hours: 200 ppm, 260 mg/m³, H |

**DNEL**

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| Industrial, dermal, Long-term - systemic effects, 63 mg/kg bw/d |
| Industrial, inhalative, Acute - local effects, 1468 mg/m³ |
| Industrial, inhalative, Long-term - systemic effects, 734 mg/m³ |
| Industrial, inhalative, Long-term - local effects, 734 mg/m³ |
| Industrial, inhalative, Acute - systemic effects, 1468 mg/m³ |
| general population, dermal, Long-term - systemic effects, 37 mg/kg bw/d |
| general population, inhalative, Acute - local effects, 734 mg/m³ |
| general population, inhalative, Acute - systemic effects, 734 mg/m³ |
| general population, inhalative, Long-term - local effects, 367 mg/m³ |
| general population, inhalative, Long-term - systemic effects, 367 mg/m³ |
| general population, oral, Long-term - systemic effects, 4.5 mg/kg bw/d |
| Methyl methacrylate, CAS: 80-62-6 |
| Industrial, dermal, Acute - local effects, 1.5 mg/cm² |
| Industrial, dermal, Long-term - local effects, 1.5 mg/cm² |
| Industrial, dermal, Long-term - systemic effects, 13.67 mg/kg bw/d |
| Industrial, inhalative, Long-term - local effects, 208 mg/m³ |
| Industrial, inhalative, Long-term - systemic effects, 348.4 mg/m³ |
| Industrial, inhalative, Acute - local effects, 416 mg/m³ |
| general population, oral, Long-term - systemic effects, 8.2 mg/kg bw/day |
| general population, inhalative, Long-term - local effects, 104 mg/m³ |
| general population, dermal, Acute - local effects, 1.5 mg/cm² |
| general population, dermal, Long-term - local effects, 1.5 mg/cm² |
| general population, inhalative, Long-term - systemic effects, 74.3 mg/m³ |

| |
|---|
| general population, inhalative, Acute - local effects, 208 mg/m³ |
| general population, dermal, Long-term - systemic effects, 8.2 mg/kg bw/d |
| Toluene, CAS: 108-88-3 |
| Industrial, inhalative, Acute - local effects, 384 mg/m³ |
| Industrial, inhalative, Long-term - systemic effects, 192 mg/m³ |
| Industrial, inhalative, Acute - systemic effects, 384 mg/m³ |
| Industrial, inhalative, Long-term - local effects, 192 mg/m³ |
| Industrial, dermal, Long-term - systemic effects, 384 mg/kg bw/day |
| general population, inhalative, Acute - systemic effects, 226 mg/m³ |
| general population, inhalative, Acute - local effects, 226 mg/m³ |
| general population, dermal, Long-term - systemic effects, 226 mg/kg bw/day |
| general population, inhalative, Long-term - systemic effects, 56.5 mg/m³ |
| general population, oral, Long-term - systemic effects, 8.13 mg/kg bw/day |
| Butan-1-ol, CAS: 71-36-3 |
| Industrial, inhalative (vapor), Long-term - local effects, 310 mg/m³ |
| general population, dermal, Long-term - systemic effects, 3.125 mg/kg bw/day |
| general population, oral, Long-term - systemic effects, 1.562 mg/kg bw/day |
| general population, inhalative (vapor), Long-term - systemic effects, 55.357 mg/m³ |
| general population, inhalative (vapor), Long-term - local effects, 155 mg/m³ |
| Propan-2-ol, CAS: 67-63-0 |
| Industrial, dermal, Long-term - systemic effects, 888 mg/kg bw/day |
| Industrial, inhalative (vapor), Long-term - systemic effects, 500 mg/m³ |
| general population, inhalative (vapor), Long-term - systemic effects, 89 mg/m³ |
| general population, oral, Long-term - systemic effects, 26 mg/kg |
| general population, dermal, Long-term - systemic effects, 319 mg/kg bw/day |
| Butyl methacrylate, CAS: 97-88-1 |
| Industrial, inhalative, Long-term - local effects, 409 mg/m³ |
| Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day |
| Industrial, inhalative, Long-term - systemic effects, 415.9 mg/m³ |
| general population, dermal, Long-term - systemic effects, 3 mg/kg bw/day |
| general population, inhalative, Long-term - systemic effects, 66.5 mg/m³ |

**PNEC**

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| soil, 0.148 mg/kg |
| freshwater, 240 µg/L |
| seawater, 24 µg/L |
| sediment (seawater), 0.115 mg/kg |
| sewage treatment plants (STP), 650 mg/l |
| oral (food), 200 mg/kg |
| sediment (freshwater), 1.15 mg/kg |
| Methyl methacrylate, CAS: 80-62-6 |
| freshwater, 0.94 mg/L |
| sediment (seawater), 1.48 mg/kg soil dw |
| sediment (seawater), 0.102 mg/kg sediment dw |
| seawater, 0.094 mg/L |
| sewage treatment plants (STP), 10 mg/L |

| |
|---|
| sediment (freshwater), 10.2 mg/kg sediment dw |
| Toluene, CAS: 108-88-3 |
| sewage treatment plants (STP), 13.61 mg/L |
| sediment (freshwater), 16.39 mg/kg |
| sediment (seawater), 16.39 mg/kg |
| freshwater, 0.68 mg/L |
| seawater, 0.68 mg/L |
| soil, 2.89 mg/kg |
| Butan-1-ol, CAS: 71-36-3 |
| soil, 0.017 mg/kg |
| freshwater, 0.082 mg/l |
| seawater, 0.008 mg/l |
| sewage treatment plants (STP), 2476 mg/l |
| sediment (seawater), 0.032 mg/kg |
| sediment (freshwater), 0.324 mg/kg |
| Butyl methacrylate, CAS: 97-88-1 |
| freshwater, 0.017 mg/L |
| seawater, 0.002 mg/L |
| sewage treatment plants (STP), 31.7 mg/l |
| sediment (freshwater), 4.73 mg/kg |
| sediment (seawater), 0.473 mg/kg |
| soil, 0.935 mg/kg |

## 8.2 Exposure controls

| | |
|---|---|
| **Additional advice on system design** | Ensure adequate ventilation on workstation.<br>Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| **Eye protection** | Safety glasses. (EN 166:2001) |
| **Hand protection** | 0.7 mm Viton, >480 min (EN 374-1/-2/-3).<br>The details concerned are recommendations. Please contact the glove supplier for further information. |
| **Skin protection** | Solvent-resistant protective clothing (EN 340) |
| **Other** | Avoid contact with eyes and skin.<br>Do not inhale gases/vapours.<br>Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.<br>It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. |
| **Respiratory protection** | In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.<br>Multi-purpose filter ABEK. (DIN EN 14387) |
| **Thermal hazards** | no |
| **Delimitation and monitoring of the environmental exposition** | Protect the environment by applying appropriate control measures to prevent or limit emissions. |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | liquid |
| **Form** | liquid |
| **Color** | colourless |
| **Odor** | characteristic |
| **Odour threshold** | not relevant |
| **pH-value** | not applicable |
| **pH-value [1%]** | not applicable |
| **Boiling point [°C]** | >76 |
| **Flash point [°C]** | -4 |
| **Flammability** | not determined |
| **Lower explosion limit** | not determined |
| **Upper explosion limit** | not determined |
| **Oxidising properties** | no |
| **Vapour pressure/gas pressure [kPa]** | not determined |
| **Density [g/cm³]** | not determined |
| **Relative density** | not determined |
| **Bulk density [kg/m³]** | not applicable |
| **Solubility in water** | partially miscible |
| **Solubility other solvents** | No information available. |
| **Partition coefficient [n-octanol/water]** | not determined |
| **Kinematic viscosity** | <7 mm²/s (40 °C) |
| **Relative vapour density** | not determined |
| **Evaporation speed** | not determined |
| **Melting point [°C]** | not determined |
| **Auto-ignition temperature [°C]** | not applicable |
| **Decomposition temperature [°C]** | not determined |
| **Particle characteristics** | No information available. |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Evolution of highly flammable gases/vapours.
Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.
Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7
Strong heating.

### 10.5 Incompatible materials

not determined

### 10.6 Hazardous decomposition products

Flammable gases/vapours.
Contact with moisture liberates Methanol.

## SECTION 11: Toxicological information

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

**Acute oral toxicity** Based on available data, the classification criteria are not met.

| Product |
|---|
| ATE-mix, oral, Rat, > 5000 mg/kg |

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| LD50, oral, Rat, 5620 mg/kg |
| Methyl methacrylate, CAS: 80-62-6 |
| LD50, oral, Rat, > 5000 mg/kg (OECD 401) |
| Toluene, CAS: 108-88-3 |
| LD50, oral, Rat, 5580 mg/kg |
| Butan-1-ol, CAS: 71-36-3 |
| LD50, oral, Rat (female), 2292 mg/kg bw, OECD 401 |
| Propan-2-ol, CAS: 67-63-0 |
| LD50, oral, Rat, 5840 mg/kg |
| Butyl methacrylate, CAS: 97-88-1 |
| LD50, oral, Rat, > 2000 mg/kg |

**Acute dermal toxicity** Based on available data, the classification criteria are not met.

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| LD50, dermal, Rabbit, 20000 mg/kg |
| Methyl methacrylate, CAS: 80-62-6 |
| LD50, dermal, Rabbit, > 5000 mg/kg |
| Toluene, CAS: 108-88-3 |
| LD50, dermal, Rabbit, 12.124 mg/kg |
| Butan-1-ol, CAS: 71-36-3 |
| LD50, dermal, Rabbit, 3400 mg/kg |
| Propan-2-ol, CAS: 67-63-0 |
| LD50, dermal, Rabbit, 13900 mg/kg |
| Butyl methacrylate, CAS: 97-88-1 |
| LD50, dermal, Rabbit, > 2000 mg/kg |

**Acute inhalational toxicity** Based on available data, the classification criteria are not met.

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| LC50, inhalation (vapour ), Rat, 200 mg/l/1h, no adverse effect observed |
| LC50, inhalative, Rat, 5.86 mg/l 4 h (Lit.) |
| LC0, inhalation (vapour ), Rat, 29.3 mg/l/4h, no adverse effect observed |
| LCLO, inhalation (vapour ), Rat, > 6000 ppm/6h, no adverse effect observed |
| Methyl methacrylate, CAS: 80-62-6 |
| LC50, inhalative, Rat, 29.8 mg/l |
| Toluene, CAS: 108-88-3 |
| LC50, inhalative, Rat, 25.7 mg/L (4h) (OECD 403) |

| |
|---|
| Butan-1-ol, CAS: 71-36-3 |
| LC50, inhalative, Rat, > 17.76 mg/l (4 h) |
| Propan-2-ol, CAS: 67-63-0 |
| LC50, inhalative, Rat, 25 mg/L |

**Serious eye damage/irritation** Irritant

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| Eye, Rabbit, In vivo study, Slight irritant effect - does not require labelling. |
| Methyl methacrylate, CAS: 80-62-6 |
| Eye, non-irritating |
| Toluene, CAS: 108-88-3 |
| Eye, Rabbit, OECD 405, non-irritating |
| Butan-1-ol, CAS: 71-36-3 |
| Eye, Rabbit, OECD 405, corrosive |
| Propan-2-ol, CAS: 67-63-0 |
| Eye, Rabbit, Study, irritant |

**Skin corrosion/irritation** Irritant

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| dermal, Rabbit, In vivo study, negativ |
| Methyl methacrylate, CAS: 80-62-6 |
| dermal, irritant |
| Toluene, CAS: 108-88-3 |
| dermal, Rabbit, Study, irritant |
| Butan-1-ol, CAS: 71-36-3 |
| dermal, Rabbit, irritant |
| Propan-2-ol, CAS: 67-63-0 |
| dermal, Rabbit, non-irritating |

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
May produce an allergic reaction.

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| dermal, Guinea pig, OECD 406, negativ |
| Methyl methacrylate, CAS: 80-62-6 |
| inhalative, no adverse effect observed |
| dermal, sensitising |
| Toluene, CAS: 108-88-3 |
| No information available. |
| Butan-1-ol, CAS: 71-36-3 |
| dermal, Mouse (female), OECD 429, non-sensitizing |
| Propan-2-ol, CAS: 67-63-0 |
| dermal, non-sensitizing |

**Specific target organ toxicity —** Vapours may cause drowsiness and dizziness.

**single exposure**

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| positive |
| Methyl methacrylate, CAS: 80-62-6 |
| inhalative, irritant |
| Toluene, CAS: 108-88-3 |
| positive |

**Specific target organ toxicity — repeated exposure** May cause damage to organs through prolonged or repeated exposure through inhalation.

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| NOAEL, oral, Rat, 900 mg/kg bw/day, Study, negativ |
| NOAEC, inhalative, Rat, 1.28 mg/L, Study, negativ |
| Methyl methacrylate, CAS: 80-62-6 |
| NOAEL, oral, Rat, 124 mg/kg bw/day (chronic), no adverse effect observed |
| NOAEC, inhalative, Rat, 2080 mg/m³ (chronic), no adverse effect observed |
| Toluene, CAS: 108-88-3 |
| positive |
| Butan-1-ol, CAS: 71-36-3 |
| NOAEL, oral, Rat, 125 mg/kg bw/day, no adverse effect observed |
| NOAEC, inhalative, Rat, 1500 mg/m³, no adverse effect observed |
| Propan-2-ol, CAS: 67-63-0 |
| NOAEC, inhalative, Rat, 12500 mg/m³, OECD 451, negativ |

**Mutagenicity** Does not contain a relevant substance that meets the classification criteria.

| Substance |
|---|
| Methyl methacrylate, CAS: 80-62-6 |
| in vivo, no adverse effect observed |
| in vitro, The effects observed are not sufficient for classification. |
| Toluene, CAS: 108-88-3 |
| mouse, Ames-test, negativ |
| Butan-1-ol, CAS: 71-36-3 |
| in vivo, OECD 474, negativ |
| in vitro, OECD 476, negativ |
| Propan-2-ol, CAS: 67-63-0 |
| in vitro, negativ |
| in vivo, negativ |

**Reproduction toxicity** Suspected of damaging the unborn child.
This product contains one or more substances of categorie Repr. 2 (CLP).
CAS: 108-88-3

**- Fertility**

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| NOAEL, oral, mouse, 26400 mg/kg bw/day, In vivo study, negativ |
| NOAEC, inhalative, Rat, 22 000 mg/m³, In vivo study, negativ |

| |
|---|
| Methyl methacrylate, CAS: 80-62-6 |
| NOAEL, oral, Rabbit, 450 mg/kg bw/day (subacute), no adverse effect observed |
| NOAEC, inhalative, Rat, 8 300 mg/m³ (subacute), no adverse effect observed |
| Toluene, CAS: 108-88-3 |
| inhalative, Rat, Study, positive |
| Butan-1-ol, CAS: 71-36-3 |
| NOAEL, oral, Rat, 1454 mg/kg bw/day, OECD 414, adverse effect observed |
| NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed |
| NOAEC, inhalative, Rat, 6189 mg/m³, no adverse effect observed |
| Propan-2-ol, CAS: 67-63-0 |
| NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 416, no adverse effect observed |

**- Development**

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| NOAEL, oral, mouse, 26400 mg/kg bw/day, In vivo study, negativ |
| NOAEC, inhalative, Rat, 22 000 mg/m³, In vivo study, negativ |
| Methyl methacrylate, CAS: 80-62-6 |
| NOAEL, oral, Rabbit, 450 mg/kg bw/day (subacute), no adverse effect observed |
| NOAEC, inhalative, Rat, 8 300 mg/m³ (subacute), no adverse effect observed |
| Toluene, CAS: 108-88-3 |
| inhalative, Rat, Study, positive |
| Butan-1-ol, CAS: 71-36-3 |
| NOAEL, oral, Rat, 1454 mg/kg bw/day, OECD 414, adverse effect observed |
| NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed |
| NOAEC, inhalative, Rat, 6189 mg/m³, no adverse effect observed |
| Propan-2-ol, CAS: 67-63-0 |
| NOAEC, oral, Rat, 400 mg/kg bw/day, OECD 414, no adverse effect observed, Effect on developmental toxicity, |

**Carcinogenicity** Does not contain a relevant substance that meets the classification criteria.

| Substance |
|---|
| Methyl methacrylate, CAS: 80-62-6 |
| NOAEL, oral, Rat, 90.3 mg/kg bw/day (chronic), no adverse effect observed |
| NOAEC, inhalative, Rat, 2050 mg/m³ (chronic), no adverse effect observed |

**Aspiration hazard** May be fatal if swallowed and enters airways.
v < 20.5 mm²/s (40 °C)

**General remarks**

Toxicological data of complete product are not available.

## 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**11.2.2 Other information** none

## SECTION 12: Ecological information

### 12.1 Toxicity

| Substance |
|---|
| Ethyl acetate, CAS: 141-78-6 |
| EC50, (24h), Daphnia magna, 2500 - 3090 mg/L |
| NOEC, (21d), Daphnia magna, 2.4 mg/L |
| Methyl methacrylate, CAS: 80-62-6 |
| LC50, (96h), Oncorhynchus mykiss, > 79 mg/l (OECD 203) |
| EC50, (48h), Daphnia magna, 69 mg/l (OECD 202) |
| EC50, (72h), Selenastrum capricornutum, > 110 mg/l (OECD 201) |
| NOEC, Danio rerio, 9.4 mg/l (OECD 210) |
| NOEC, (21d), Daphnia magna, 37 mg/l (OECD 202-2) |
| Toluene, CAS: 108-88-3 |
| LC50, (96h), Oncorhynchus mykiss, 5.8 mg/L (ECOTOX- Database) |
| EC50, (48h), Daphnia magna, 6 mg/L |
| EC50, (24h), Pseudokirchneriella subcapitata, 10.00 mg/L |
| Butan-1-ol, CAS: 71-36-3 |
| LC50, (96h), Leuciscus idus, 1200 mg/l |
| LC50, (96h), Scenedesmus subspicatus, > 500 mg/l |
| LC50, (96h), Pimephales promelas, 1376 mg/l |
| EC50, Pseudomonas putida, 4400 mg/l (17 h) |
| EC50, (72h), Desmodesmus subspicatus, > 500 mg/l |
| EC50, (48h), Daphnia magna, 1328 mg/l |
| Propan-2-ol, CAS: 67-63-0 |
| LC50, (96h), Pimephales promelas, 10000 mg/L |
| LC50, (24h), Daphnia magna, > 10000 mg/L |
| Butyl methacrylate, CAS: 97-88-1 |
| LC50, (96h), Pimephales promelas, 11 mg/l |
| EC50, (96h), Pseudokirchneriella subcapitata, 57 mg/l |
| EC50, (48h), Daphnia magna, 32 mg/l |

### 12.2 Persistence and degradability

| | |
|---|---|
| **Behaviour in environment compartments** | not determined |
| **Behaviour in sewage plant** | not determined |
| **Biological degradability** | not determined |

### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product**

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

**Waste no. (recommended)** 200113*

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

**Waste no. (recommended)** 150110* packaging containing residues of or contaminated by hazardous substances
150102

## SECTION 14: Transport information

### 14.1 UN number or ID number

| | |
|---|---|
| **Transport by land according to ADR/RID** | 1993 |
| **Inland navigation (ADN)** | 1993 |
| **Marine transport in accordance with IMDG** | 1993 |
| **Air transport in accordance with IATA** | 1993 |

### 14.2 UN proper shipping name

| | |
|---|---|
| **Transport by land according to ADR/RID** | Flammable liquid, n.o.s. (Toluene, Ethyl acetate) |
| **- Classification Code** | F1 |
| **- Label** |  |
| **- ADR LQ** | 1 l |
| **- ADR 1.1.3.6 (8.6)** | Transport category (tunnel restriction code) 2 (D/E) |
| **Inland navigation (ADN)** | Flammable liquid, n.o.s. (Toluene, Ethyl acetate) |
| **- Classification Code** | F1 |
| **- Label** |  |
| **Marine transport in accordance with IMDG** | Flammable liquid, n.o.s. (Toluene, Ethyl acetate) |
| **- EMS** | F-E, S-E |
| **- Label** |  |
| **- IMDG LQ** | 1 l |
| **Air transport in accordance with IATA** | Flammable liquid, n.o.s. (Toluene, Ethyl acetate) |
| **- Label** |  |

### 14.3 Transport hazard class(es)

| | |
|---|---|
| **Transport by land according to ADR/RID** | 3 |
| **Inland navigation (ADN)** | 3 |
| **Marine transport in accordance with IMDG** | 3 |
| **Air transport in accordance with IATA** | 3 |

### 14.4 Packing group

| | |
|---|---|
| **Transport by land according to ADR/RID** | II |
| **Inland navigation (ADN)** | II |
| **Marine transport in accordance with IMDG** | II |
| **Air transport in accordance with IATA** | II |

### 14.5 Environmental hazards

| | |
|---|---|
| **Transport by land according to ADR/RID** | no |
| **Inland navigation (ADN)** | no |
| **Marine transport in accordance with IMDG** | no |
| **Air transport in accordance with IATA** | no |

### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 14.7 Maritime transport in bulk according to IMO instruments

not determined

## SECTION 15: Regulatory information

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

| | |
|---|---|
| **EEC-REGULATIONS** | 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148 |
| **- Comment on component parts** | Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. |
| **- Annex I (REACH)** | The product is not subject to Annex I restrictions. |
| **- Annex XIV (REACH)** | According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances ≥ 0.1% that are subject to authorisation. |
| **- Annex XVII (REACH)** | According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1% of substances with the following restrictions. 3, 40, 48, 75 |
| | According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is subject to the following restrictions.<br>3 |
| **TRANSPORT-REGULATIONS** | ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023) |
| **NATIONAL REGULATIONS (EU):** | |
| **- Observe employment restrictions for people** | Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people. |
| **- VOC (2010/75/CE)** | > 90 % |

### 15.2 Chemical safety assessment

not applicable

## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H226 Flammable liquid and vapour.

H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H361d Suspected of damaging the unborn child.
EUH066 Repeated exposure may cause skin dryness or cracking.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H225 Highly flammable liquid and vapour.

### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform ChemicaL Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

### 16.3 Other information

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

| | |
|---|---|
| **Classification procedure** | Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)<br>Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)<br>Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)<br>STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)<br>Repr. 2: H361d Suspected of damaging the unborn child. (Calculation method)<br>Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)<br>STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method) |
| **Modified position** | SECTION 15 been added: 3, conf. AwSV, 18.04.2017<br>SECTION 15 deleted: 2, conf. AwSV, 18.04.2017 |