

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

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

### 1.1 Product identifier

**Primer 100**

### 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](http://www.ramsauer.eu)  
E-mail [office@ramsauer.eu](mailto:office@ramsauer.eu)

#### Address enquiries to

#### Technical information

[office@ramsauer.eu](mailto:office@ramsauer.eu)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Advisory body

+43 (0) 1 406 43 43 (24h)

## 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.

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## 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

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**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/m <sup>3</sup>
Short-term (15-minute): 400 ppm, 1468 mg/m <sup>3</sup>
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/m <sup>3</sup> , H
Short-term (15-minute): 100 ppm, 384 mg/m <sup>3</sup>
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/m <sup>3</sup> , 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/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 734 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 734 mg/m <sup>3</sup>
Industrial, inhalative, Acute - systemic effects, 1468 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 37 mg/kg bw/d
general population, inhalative, Acute - local effects, 734 mg/m <sup>3</sup>
general population, inhalative, Acute - systemic effects, 734 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 367 mg/m <sup>3</sup>
general population, inhalative, Long-term - systemic effects, 367 mg/m <sup>3</sup>
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/cm <sup>2</sup>
Industrial, dermal, Long-term - local effects, 1.5 mg/cm <sup>2</sup>
Industrial, dermal, Long-term - systemic effects, 13.67 mg/kg bw/d
Industrial, inhalative, Long-term - local effects, 208 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 348.4 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 416 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 8.2 mg/kg bw/day
general population, inhalative, Long-term - local effects, 104 mg/m <sup>3</sup>
general population, dermal, Acute - local effects, 1.5 mg/cm <sup>2</sup>
general population, dermal, Long-term - local effects, 1.5 mg/cm <sup>2</sup>
general population, inhalative, Long-term - systemic effects, 74.3 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 208 mg/m <sup>3</sup>

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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/m <sup>3</sup>
Industrial, inhalative, Long-term - systemic effects, 192 mg/m <sup>3</sup>
Industrial, inhalative, Acute - systemic effects, 384 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 192 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 384 mg/kg bw/day
general population, inhalative, Acute - systemic effects, 226 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 226 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 226 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 56.5 mg/m <sup>3</sup>
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/m <sup>3</sup>
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/m <sup>3</sup>
general population, inhalative (vapor), Long-term - local effects, 155 mg/m <sup>3</sup>
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/m <sup>3</sup>
general population, inhalative (vapor), Long-term - systemic effects, 89 mg/m <sup>3</sup>
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/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 5 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 415.9 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 3 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 66.5 mg/m <sup>3</sup>

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

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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

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. 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.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0.7 mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Solvent-resistant protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale gases/vapours. 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. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Multi-purpose filter ABEK. (DIN EN 14387)
<b>Thermal hazards</b>	no
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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## 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/cm <sup>3</sup> ]	not determined
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	partially miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	<7 mm <sup>2</sup> /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.



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#### **10.5 Incompatible materials**

not determined

#### **10.6 Hazardous decomposition products**

Flammable gases/vapours.

Contact with moisture liberates Methanol.

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## 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

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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 —  
single exposure**

Vapours may cause drowsiness and dizziness.

Substance

Ethyl acetate, CAS: 141-78-6

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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/m<sup>3</sup> (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/m<sup>3</sup>, no adverse effect observed

Propan-2-ol, CAS: 67-63-0

NOAEC, inhalative, Rat, 12500 mg/m<sup>3</sup>, 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/m<sup>3</sup>, 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/m<sup>3</sup> (subacute), no adverse effect observed

Toluene, CAS: 108-88-3

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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/m<sup>3</sup>, 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/m<sup>3</sup>, 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/m<sup>3</sup> (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/m<sup>3</sup>, 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/m<sup>3</sup> (chronic), no adverse effect observed

**Aspiration hazard**

May be fatal if swallowed and enters airways.  
 $v < 20.5 \text{ mm}^2/\text{s}$  (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

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## 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.

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## 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





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#### 14.2 UN proper shipping name

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

#### 14.3 Transport hazard class(es)

<b>Transport by land according to ADR/RID</b>	3
<b>Inland navigation (ADN)</b>	3
<b>Marine transport in accordance with IMDG</b>	3
<b>Air transport in accordance with IATA</b>	3

#### 14.4 Packing group

<b>Transport by land according to ADR/RID</b>	II
<b>Inland navigation (ADN)</b>	II
<b>Marine transport in accordance with IMDG</b>	II
<b>Air transport in accordance with IATA</b>	II



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#### 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  $\geq 0.1\%$  that are subject to authorisation.

- **Annex XVII (REACH)** According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains  $\geq 0.1\%$  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.  
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

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## 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)  
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)  
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)  
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)  
Repr. 2: H361d Suspected of damaging the unborn child. (Calculation method)  
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)  
STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

#### Modified position

SECTION 15 been added: 3, conf. AwSV, 18.04.2017  
SECTION 15 deleted: 2, conf. AwSV, 18.04.2017

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