

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

### 1.1. Product identifier

Product form : Mixture  
Trade name : Primer 150

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

#### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Industrial use, Professional use

#### 1.2.2. Uses advised against

No additional information available

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

#### Supplier

Soudal N.V.  
Everdongenlaan 18-20  
2300 Turnhout  
Belgium  
T +32 14 42 42 31 - F +32 14 42 65 14  
[sds@soudal.com](mailto:sds@soudal.com) - [www.Soudal.com](http://www.Soudal.com)

### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225  
Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2 H319  
Reproductive toxicity, Category 2 H361d  
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336  
Specific target organ toxicity – Repeated exposure, Category 2 H373  
Aspiration hazard, Category 1 H304  
Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

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

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### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

- : Danger
- : toluene; butan-1-ol
- : H225 - Highly flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H361d - Suspected of damaging the unborn child.  
H373 - May cause damage to organs through prolonged or repeated exposure.
- : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do NOT induce vomiting.  
P405 - Store locked up.  
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : EUH208 - Contains methyl methacrylate, n-butyl methacrylate. May produce an allergic reaction.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

Component	
toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
butan-1-ol (71-36-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
methyl methacrylate (80-62-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
n-butyl methacrylate (97-88-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
toluene substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310-51	≥ 50 - < 90	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
butan-1-ol substance with national workplace exposure limit(s) (BE)	CAS-No.: 71-36-3 EC-No.: 200-751-6 EC Index-No.: 603-004-00-6 REACH-no: 01-2119484630-38	< 5	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335 STOT SE 3, H336
methyl methacrylate substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6 REACH-no: 01-2119452498-28	< 1	Flam. Liq. 2, H225 Skin Sens. 1, H317 Skin Irrit. 2, H315 STOT SE 3, H335
n-butyl methacrylate	CAS-No.: 97-88-1 EC-No.: 202-615-1 EC Index-No.: 607-033-00-5 REACH-no: 01-2119486394-28	< 1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after 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.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Headache. Dizziness. Drunkenness. Coordination disorders.
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: Symptoms similar to those listed under inhalation. Risk of lung oedema.

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

Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

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

- Fire hazard : Highly flammable liquid and vapour.  
Hazardous decomposition products in case of fire : On burning: release of carbon monoxide - carbon dioxide.

#### 5.3. Advice for firefighters

- Firefighting instructions : Cool closed containers exposed to fire with water spray. Get the package away from the fire if this can be done without risk.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

- General measures : No open flames. No smoking. Remove ignition sources. Use special care to avoid static electric charges.

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite.  
Methods for cleaning up : Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

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Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.  
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.  
Incompatible products : Heat sources. Ignition sources. Oxidizing agent.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

toluene (108-88-3)	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Toluene
IOEL TWA	192 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
IOEL STEL	384 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
Remark	Skin Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC COMMISSION DIRECTIVE 2006/15/EC
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Toluène # Tolueen
OEL TWA	77 mg/m <sup>3</sup>
OEL TWA [ppm]	20 ppm
OEL STEL	384 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>butan-1-ol (71-36-3)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Alcool n-butylique # n-Butanol
OEL TWA	62 mg/m <sup>3</sup>
OEL TWA [ppm]	20 ppm

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<b>butan-1-ol (71-36-3)</b>	
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>methyl methacrylate (80-62-6)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Methyl methacrylate
IOEL TWA [ppm]	50 ppm
IOEL STEL [ppm]	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU COMMISSION DIRECTIVE 2009/161/EU
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Méthacrylate de méthyle # Methylmethacrylaat
OEL TWA	208 mg/m <sup>3</sup>
OEL TWA [ppm]	50 ppm
OEL STEL	416 mg/m <sup>3</sup>
OEL STEL [ppm]	100 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

<b>toluene (108-88-3)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, inhalation	384 mg/m <sup>3</sup>
Acute - local effects, inhalation	384 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	384 mg/kg bw/day
Long-term - systemic effects, inhalation	192 mg/m <sup>3</sup>
Long-term - local effects, inhalation	192 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, inhalation	226 mg/m <sup>3</sup>
Acute - local effects, inhalation	226 mg/m <sup>3</sup>
Long-term - systemic effects, oral	8,13 mg/kg bw/day
Long-term - systemic effects, inhalation	56,5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	226 mg/kg bw/day
Long-term - local effects, inhalation	56,5 mg/m <sup>3</sup>

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<b>toluene (108-88-3)</b>	
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,68 mg/l
PNEC aqua (marine water)	0,68 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	16,39 mg/kg dwt
PNEC sediment (marine water)	16,39 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	2,89 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	13,61 mg/l
<b>butan-1-ol (71-36-3)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - local effects, inhalation	310 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	1,562 mg/kg bw/day
Long-term - systemic effects, inhalation	55,357 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	3,125 mg/kg bw/day
Long-term - local effects, inhalation	155 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,082 mg/l
PNEC aqua (marine water)	0,008 mg/l
PNEC aqua (intermittent, freshwater)	2,25 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,324 mg/kg dwt
PNEC sediment (marine water)	0,032 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,017 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	2476 mg/l
<b>methyl methacrylate (80-62-6)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, dermal	1,5 mg/cm <sup>2</sup>
Acute - local effects, inhalation	416 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	13,67 mg/kg bw/day
Long-term - local effects, dermal	1,5 mg/cm <sup>2</sup>
Long-term - systemic effects, inhalation	348,4 mg/m <sup>3</sup>
Long-term - local effects, inhalation	208 mg/m <sup>3</sup>

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<b>methyl methacrylate (80-62-6)</b>	
<b>DNEL/DMEL (General population)</b>	
Acute - local effects, dermal	1,5 mg/cm <sup>2</sup>
Acute - local effects, inhalation	208 mg/m <sup>3</sup>
Long-term - systemic effects, oral	8,2 mg/kg bw/day
Long-term - systemic effects, inhalation	74,3 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	8,2 mg/kg bw/day
Long-term - local effects, dermal	1,5 mg/cm <sup>2</sup>
Long-term - local effects, inhalation	104 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,94 mg/l
PNEC aqua (marine water)	0,094 mg/l
PNEC aqua (intermittent, freshwater)	0,94 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	10,2 mg/kg dwt
PNEC sediment (marine water)	0,102 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	1,48 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	10 mg/l
<b>n-butyl methacrylate (97-88-1)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, dermal	1 % in mixture
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day
Long-term - local effects, dermal	1 % in mixture
Long-term - systemic effects, inhalation	415,9 mg/m <sup>3</sup>
Long-term - local effects, inhalation	409 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - local effects, dermal	1 % in mixture
Long-term - systemic effects, inhalation	66,5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	3 mg/kg bodyweight/day
Long-term - local effects, dermal	1 % in mixture
Long-term - local effects, inhalation	366,4 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,0169 mg/l
PNEC aqua (marine water)	0,00169 mg/l
PNEC aqua (intermittent, freshwater)	0,056 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	4,73 mg/kg dwt



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n-butyl methacrylate (97-88-1)	
PNEC sediment (marine water)	0,473 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,935 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	31,7 mg/l

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Use spark-/explosionproof appliances and lighting system. Measure concentrations regularly, and at the time of any change occurring in conditions likely to have consequences on workers exposure. No open flames. No smoking. Avoid the build-up of electrostatic charge. Ensure good ventilation of the work station.

### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Protective goggles (EN 166)

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Protective clothing (EN 14605 or EN 13034)

##### Hand protection:

Protective gloves against chemicals (EN 374)

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Colourless.
Appearance	: Liquid.
Odour	: solvent-like.
Odour threshold	: Not available
Melting point	: Not applicable

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Freezing point	: Not available
Boiling point	: > 35 °C
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 8 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: < 20,5 mm <sup>2</sup> /s (40°C)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 29 hPa
Vapour pressure at 50°C	: 109 hPa
Density	: 0,92 kg/l (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: > 1
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Explosion limits : 1,2 – 7 vol %

#### 9.2.2. Other safety characteristics

VOC content : 100 % (920 g/l)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This gas is denser than air and may travel along the ground. Distance ignition possible. Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Prevent build-up of electrostatic charges (e.g. by grounding). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

On burning: release of carbon monoxide - carbon dioxide.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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<b>toluene (108-88-3)</b>	
LD50 oral rat	5580 mg/kg bodyweight (Equivalent or similar to EU Method B.1, Rat, Male, Experimental value, Oral, 7 day(s))
LD50 dermal rabbit	> 5000 mg/kg bodyweight (24 h, Rabbit, Male, Experimental value, Dermal)
LC50 Inhalation - Rat	28,1 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours))

<b>butan-1-ol (71-36-3)</b>	
LD50 oral rat	2292 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	3430 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 17,76 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (vapours), 14 day(s))

<b>methyl methacrylate (80-62-6)</b>	
LD50 oral rat	9400 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	29,8 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 1 day(s))

Skin corrosion/irritation : Causes skin irritation.

<b>toluene (108-88-3)</b>	
pH	No data available in the literature

<b>butan-1-ol (71-36-3)</b>	
pH	7 (7 %)

<b>methyl methacrylate (80-62-6)</b>	
pH	No data available in the literature

<b>n-butyl methacrylate (97-88-1)</b>	
pH	No data available in the literature

Serious eye damage/irritation : Causes serious eye irritation.

<b>toluene (108-88-3)</b>	
pH	No data available in the literature

<b>butan-1-ol (71-36-3)</b>	
pH	7 (7 %)

<b>methyl methacrylate (80-62-6)</b>	
pH	No data available in the literature

<b>n-butyl methacrylate (97-88-1)</b>	
pH	No data available in the literature

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

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<b>toluene (108-88-3)</b>	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.
<b>toluene (108-88-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>butan-1-ol (71-36-3)</b>	
STOT-single exposure	May cause respiratory irritation. May cause drowsiness or dizziness.
<b>methyl methacrylate (80-62-6)</b>	
STOT-single exposure	May cause respiratory irritation.
<b>n-butyl methacrylate (97-88-1)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
<b>toluene (108-88-3)</b>	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>butan-1-ol (71-36-3)</b>	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat
<b>n-butyl methacrylate (97-88-1)</b>	
LOAEC (inhalation, rat, gas, 90 days)	952 ppm Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
NOAEL (oral, rat, 90 days)	120 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Aspiration hazard	: May be fatal if swallowed and enters airways.
<b>Primer 150</b>	
Viscosity, kinematic	< 20,5 mm <sup>2</sup> /s (40°C)
<b>toluene (108-88-3)</b>	
Viscosity, kinematic	No data available in the literature
<b>butan-1-ol (71-36-3)</b>	
Viscosity, kinematic	No data available in the literature
<b>methyl methacrylate (80-62-6)</b>	
Viscosity, kinematic	No data available in the literature
<b>n-butyl methacrylate (97-88-1)</b>	
Viscosity, kinematic	1,06 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'

### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

toluene (108-88-3)	
LC50 - Fish [1]	5,5 mg/l (96 h, Oncorhynchus kisutch, Flow-through system, Fresh water, Experimental value, Lethal)

butan-1-ol (71-36-3)	
LC50 - Fish [1]	1376 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	1328 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	225 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC (chronic)	4,1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

methyl methacrylate (80-62-6)	
LC50 - Fish [1]	> 100 mg/l (Pisces, Literature study)
EC50 - Crustacea [1]	69 mg/l (EPA OTS 797.1300, 48 h, Daphnia magna, Flow-through system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	> 110 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)
LOEC (chronic)	68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	37 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	9,4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d'

n-butyl methacrylate (97-88-1)	
LC50 - Fish [1]	11 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	5,57 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	32 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	31,2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

#### 12.2. Persistence and degradability

toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	2,15 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,52 g O <sub>2</sub> /g substance
ThOD	3,13 g O <sub>2</sub> /g substance

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<b>butan-1-ol (71-36-3)</b>	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1,1 – 1,92 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,46 g O <sub>2</sub> /g substance
ThOD	2,59 g O <sub>2</sub> /g substance

<b>methyl methacrylate (80-62-6)</b>	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,14 g O <sub>2</sub> /g substance
ThOD	1,9 g O <sub>2</sub> /g substance

<b>n-butyl methacrylate (97-88-1)</b>	
Persistence and degradability	Readily biodegradable in water.
ThOD	2,36 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

<b>toluene (108-88-3)</b>	
BCF - Fish [1]	90 (3 day(s), Leuciscus idus, Static renewal, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	2,73 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

<b>butan-1-ol (71-36-3)</b>	
Partition coefficient n-octanol/water (Log Pow)	1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>methyl methacrylate (80-62-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	1,38 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

<b>n-butyl methacrylate (97-88-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	2,99 (Experimental value, Equivalent or similar to OECD 107, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

<b>toluene (108-88-3)</b>	
Surface tension	27,73 mN/m (25 °C, 0.05 %)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,3 (log Koc, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

<b>butan-1-ol (71-36-3)</b>	
Surface tension	69,9 mN/m (20 °C, 1 g/l, OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0,54 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

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butan-1-ol (71-36-3)	
Ecology - soil	Highly mobile in soil.
methyl methacrylate (80-62-6)	
Surface tension	61 mN/m (OECD 115: Surface Tension of Aqueous Solutions)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0,94 – 1,86 (log Koc, EPA OTS 796.2750: Sediment and Soil Adsorption Isotherm, Experimental value, GLP)
Ecology - soil	Highly mobile in soil.
n-butyl methacrylate (97-88-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3,44 (log Koc, Calculated value)
Ecology - soil	Low potential for mobility in soil.

### 12.5. Results of PBT and vPvB assessment

Component	
toluene (108-88-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
butan-1-ol (71-36-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
methyl methacrylate (80-62-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
n-butyl methacrylate (97-88-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

## SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1993	UN 1993	UN 1993	UN 1993	UN 1993

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ADR	IMDG	IATA	ADN	RID
<b>14.2. UN proper shipping name</b>				
FLAMMABLE LIQUID, N.O.S. (toluene)	FLAMMABLE LIQUID, N.O.S. (toluene)	Flammable liquid, n.o.s. (toluene)	FLAMMABLE LIQUID, N.O.S. (toluene)	FLAMMABLE LIQUID, N.O.S. (toluene)
<b>Transport document description</b>				
UN 1993 FLAMMABLE LIQUID, N.O.S. (toluene), 3, II, (D/E)	UN 1993 FLAMMABLE LIQUID, N.O.S. (toluene), 3, II (8°C c.c.)	UN 1993 Flammable liquid, n.o.s. (toluene), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (toluene), 3, II	UN 1993 FLAMMABLE LIQUID, N.O.S. (toluene), 3, II
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601, 640D
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	:



Tunnel restriction code (ADR) : D/E

#### Transport by sea

Special provisions (IMDG)	: 274
Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28, TP8
EmS-No. (Fire)	: F-E



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EmS-No. (Spillage) : S-E  
Stowage category (IMDG) : B

### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y341  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 353  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 364  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3  
ERG code (IATA) : 3H

### Inland waterway transport

Classification code (ADN) : F1  
Special provisions (ADN) : 274, 601, 640D  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : F1  
Special provisions (RID) : 274, 601, 640D  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP8, TP28  
Tank codes for RID tanks (RID) : LGBF  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE7  
Hazard identification number (RID) : 33

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(a)	Primer 150 ; toluene ; butan-1-ol ; methyl methacrylate ; n-butyl methacrylate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F
3(b)	Primer 150 ; toluene ; butan-1-ol ; methyl methacrylate ; n-butyl methacrylate	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

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EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(c)	Primer 150	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1
48.	toluene	Toluene

### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### VOC Directive (2004/42)

VOC content : 100 % (920 g/l)

### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

### Drug Precursors Regulation (273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878		

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor

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Abbreviations and acronyms:	
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
EUH208	Contains methyl methacrylate, n-butyl methacrylate. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2

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Full text of H- and EUH-statements:	
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 2	H225	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361d	Expert judgement
STOT SE 3	H336	Calculation method
STOT RE 2	H373	Calculation method
Asp. Tox. 1	H304	Expert judgement

Safety Data Sheet (SDS), EU-2023-1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.