

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



## MEGAPLAST PPE, B

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

#### 1.1. Product identifier

Product name : MEGAPLAST PPE, B  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Adhesive: component  
Hardener

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

Novatio\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 25 76 40  
☎ +32 14 22 02 66  
info@novatio.be  
\*NOVATIO is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Repr.	category 1B	H360D: May damage the unborn child.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements



Contains: tetrahydrofurfuryl methacrylate; 2-ethylhexyl methacrylate; [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate; succinic anhydride; 2-hydroxyethyl methacrylate.

**Signal word** Danger

##### H-statements

H360D May damage the unborn child.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

##### P-statements

P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves, protective clothing and eye protection/face protection.  
P273 Avoid release to the environment.  
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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<http://www.big.be>

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Reason for revision: 9; 12

Revision number: 0400

Publication date: 2007-09-04

Date of revision: 2021-07-26

BIG number: 45077

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P333 + P313  
P308 + P313

If skin irritation or rash occurs: Get medical advice/attention.  
If exposed or concerned: Get medical advice/attention.

## 2.3. Other hazards

No other hazards known

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
tetrahydrofurfuryl methacrylate	2455-24-5 219-529-5	30% <C<70%	Repr. 1B; H360D Skin Sens. 1; H317 Aquatic Chronic 3; H412	(1)(10)	Constituent	
2-ethylhexyl methacrylate	688-84-6 211-708-6	10% <C<30%	Skin Sens. 1B; H317 Aquatic Chronic 3; H412 STOT SE 3; H335: C≥10%, (CLP Annex VI (ATP 0))	(1)(10)	Constituent	
[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate	20882-04-6 244-096-4	C<10%	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319	(1)	Constituent	
succinic anhydride 01-2119485841-30	108-30-5 203-570-0	C<1%	Resp. Sens. 1; H334 Skin Sens. 1; H317 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 EUH071	(1)(10)	Constituent	
2-hydroxyethyl methacrylate 01-2119490169-29	868-77-9 212-782-2	C<1%	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319	(1)(10)	Constituent	

(1) For H- and EUH-statements in full: see section 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

#### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

#### After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

No effects known.

##### After eye contact:

No effects known.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.  
Major fire: Class B foam (not alcohol-resistant).

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.  
Major fire: Water; risk of puddle expansion.

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

Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Face shield (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into absorbent material, e.g.: sand, saw dust, kieselguhr. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Keep container tightly closed. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: < 25 °C. Meet the legal requirements. Keep container in a well-ventilated place. Keep out of direct sunlight. Keep only in the original container.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### b) National biological limit values

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If limit values are applicable and available these will be listed below.

## 8.1.2 Sampling methods

If applicable and available it will be listed below.

## 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

## 8.1.4 Threshold values

### DNEL/DMEL - Workers

#### tetrahydrofurfuryl methacrylate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	3.53 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1 mg/kg bw/day	

#### 2-ethylhexyl methacrylate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.5 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	5 mg/kg bw/day	

#### 2-hydroxyethyl methacrylate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	4.9 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	1.3 mg/kg bw/day	

### DNEL/DMEL - General population

#### tetrahydrofurfuryl methacrylate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.87 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.5 mg/kg bw/day	
	Long-term systemic effects oral	0.5 mg/kg bw/day	

#### 2-hydroxyethyl methacrylate

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.9 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.83 mg/kg bw/day	
	Long-term systemic effects oral	0.83 mg/kg bw/day	

### PNEC

#### tetrahydrofurfuryl methacrylate

Compartments	Value	Remark
Fresh water	0.347 mg/l	
Marine water	0.035 mg/l	
Fresh water (intermittent releases)	0.347 mg/l	
Marine water (intermittent releases)	0.035 mg/l	
STP	15.8 mg/l	
Fresh water sediment	2.12 mg/kg sediment dw	
Marine water sediment	0.212 mg/kg sediment dw	
Soil	0.221 mg/kg soil dw	

#### 2-ethylhexyl methacrylate

Compartments	Value	Remark
Fresh water	0.003 mg/l	
Marine water	< 0.001 mg/l	
Fresh water (intermittent releases)	0.022 mg/l	
STP	10 mg/l	
Fresh water sediment	2.24 mg/kg sediment dw	
Marine water sediment	0.224 mg/kg sediment dw	
Soil	0.446 mg/kg soil dw	

#### succinic anhydride

Compartments	Value	Remark
Fresh water	0.085 mg/l	
Marine water	0.009 mg/l	
Fresh water (intermittent releases)	0.85 mg/l	
Marine water (intermittent releases)	0.085 mg/l	
STP	2.5 mg/l	
Fresh water sediment	1.959 mg/kg sediment dw	
Marine water sediment	0.196 mg/kg sediment dw	
Soil	0.342 mg/kg soil dw	

#### 2-hydroxyethyl methacrylate

Compartments	Value	Remark
Fresh water	0.482 mg/l	
Marine water	0.482 mg/l	
Fresh water (intermittent releases)	1 mg/l	
Marine water (intermittent releases)	1 mg/l	
STP	10 mg/l	
Fresh water sediment	3.79 mg/kg sediment dw	
Marine water sediment	3.79 mg/kg sediment dw	
Soil	0.476 mg/kg soil dw	

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

BIG number: 45077

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## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

High gas/vapour concentration: full face mask with filter type A.

#### b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	0.4 mm	Class 6	

#### c) Eye protection:

Face shield (EN 166).

#### d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

### 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Liquid
Viscosity	Viscous
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	Beige
Particle size	Not applicable (liquid)
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	17000 mPa.s - 36000 mPa.s
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	No data available in the literature
Relative vapour density	No data available in the literature
Vapour pressure	No data available in the literature
Solubility	Water ; insoluble
Relative density	0.96 - 1.10
Absolute density	960 kg/m <sup>3</sup> - 1100 kg/m <sup>3</sup>
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	No data available in the literature
pH	Not applicable (non-soluble in water)

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases.

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## 10.6. Hazardous decomposition products

Upon combustion: CO and CO<sub>2</sub> are formed.

## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

##### Acute toxicity

###### MEGAPLAST PPE, B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

tetrahydrofurfuryl methacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	4000 mg/kg bw		Rat (male / female)	Experimental value	
Dermal						Data waiving	
Inhalation						Data waiving	

###### 2-ethylhexyl methacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD0	OECD 401	> 2000 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50		> 17620 mg/kg bw		Guinea pig	Experimental value	
Inhalation	LC0		> 14 ppm	6 h	Rat	Experimental value	

###### succinic anhydride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	1795 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation						Data waiving	

###### 2-hydroxyethyl methacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		5564 mg/kg bw		Rat	Experimental value	
Dermal	LD50		> 5000 mg/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation						Data waiving	

##### Conclusion

Not classified for acute toxicity

##### Corrosion/irritation

###### MEGAPLAST PPE, B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

tetrahydrofurfuryl methacrylate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	Draize Test	24 h	24; 48; 72 hours	Rabbit	Experimental value	

###### 2-ethylhexyl methacrylate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating			24; 48; 72 hours	Rabbit	Experimental value	Single treatment
Not applicable (in vitro test)	Not irritating	OECD 439	15 minutes		Reconstructed human epidermis	Experimental value	

###### [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Literature study	
Skin	Irritating; category 2					Literature study	

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

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## succinic anhydride

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatment with rinsing
Not applicable (in vitro test)	Corrosive	OECD 431	3 minutes - 60 minutes	42 hours	Reconstructed human epidermis	Experimental value	

## 2-hydroxyethyl methacrylate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Draize Test		24; 48; 72 hrs; 4; 5; 7 days	Rabbit	Experimental value	Single treatment without rinsing
Skin	Not irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Experimental value	
Skin	Irritating; category 2					Annex VI	

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

### **Conclusion**

Not classified as irritating to the respiratory system  
 Not classified as irritating to the skin  
 Not classified as irritating to the eyes

### **Respiratory or skin sensitisation**

#### MEGAPLAST PPE, B

No (test) data on the mixture available  
 Classification is based on the relevant ingredients

#### tetrahydrofurfuryl methacrylate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Not applicable (in vitro test)	Sensitizing					Experimental value	

#### 2-ethylhexyl methacrylate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing	Guinea pig maximisation test			Guinea pig (female)	Experimental value	

#### [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing					Literature study	

#### succinic anhydride

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal (on the ears)	Sensitizing	OECD 429			Mouse (female)	Experimental value	
Inhalation (aerosol)	Sensitizing		6 h		Rat (male / female)	Experimental value of similar product	

#### 2-hydroxyethyl methacrylate

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Buehler test			Guinea pig (male)	Experimental value	
Skin	Sensitizing	Guinea pig maximisation test			Guinea pig (female)	Experimental value	

### **Conclusion**

May cause an allergic skin reaction.  
 Not classified as sensitizing for inhalation

### **Specific target organ toxicity**

#### MEGAPLAST PPE, B

No (test) data on the mixture available  
 Judgement is based on the relevant ingredients

#### tetrahydrofurfuryl methacrylate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 422	300 mg/kg bw/day		No effect	≥ 29 day(s)	Rat (male / female)	Experimental value

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

BIG number: 45077

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## 2-ethylhexyl methacrylate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 408	120 mg/kg bw/day		No effect	91 day(s)	Rat (male / female)	Experimental value
Dermal								Data waiving
Inhalation	Dose level	Subacute toxicity test	60 ppm		No effect	3 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value

## succinic anhydride

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 408	100 mg/kg bw/day		No effect	13 weeks (5 days / week)	Rat (male / female)	Experimental value
Oral (stomach tube)	LOAEL	Equivalent to OECD 408	200 mg/kg bw/day		Mortality; body weight; food consumption	13 weeks (5 days / week)	Rat (male / female)	Experimental value
Dermal								Data waiving
Inhalation								Data waiving

## 2-hydroxyethyl methacrylate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 422	100 mg/kg bw/day		No effect		Rat (male)	Experimental value
Oral (stomach tube)	NOAEL	OECD 422	300 mg/kg bw/day		No effect		Rat (female)	Experimental value
Inhalation	LOAEC	OECD 413	1232 mg/m <sup>3</sup> air		Histopathological changes	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Inhalation	NOAEC	OECD 413	352 mg/m <sup>3</sup> air		No effect	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value

### Conclusion

Not classified for subchronic toxicity

### Mutagenicity (in vitro)

#### MEGAPLAST PPE, B

No (test) data on the mixture available

Judgement is based on the relevant ingredients

#### tetrahydrofurfuryl methacrylate

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes		Experimental value	

#### 2-ethylhexyl methacrylate

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 473	Human lymphocytes		Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster lung fibroblasts (V79)		Experimental value	

#### succinic anhydride

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)		Experimental value	

Reason for revision: 9; 12

Publication date: 2007-09-04

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## 2-hydroxyethyl methacrylate

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
Negative with metabolic activation, negative without metabolic activation	OECD 476	Chinese hamster ovary (CHO)	No effect	Experimental value	

## Mutagenicity (in vivo)

### MEGAPLAST PPE, B

No (test)data on the mixture available

Judgement is based on the relevant ingredients

### 2-ethylhexyl methacrylate

Result	Method	Exposure time	Test substrate	Organ	Value determination
					Data waiving

### 2-hydroxyethyl methacrylate

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	OECD 474	2 dose(s)/24-hour interval	Rat (male)		Experimental value

### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### MEGAPLAST PPE, B

No (test)data on the mixture available

Judgement is based on the relevant ingredients

### 2-ethylhexyl methacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation	NOAEC	Equivalent to OECD 451	≥ 2.05 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (male)	No carcinogenic effect		Read-across
Inhalation	NOAEC	Equivalent to OECD 451	≥ 4.1 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (female)	No carcinogenic effect		Read-across
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 90.3 mg/kg bw/day	104 week(s)	Rat (male / female)	No carcinogenic effect		Read-across
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 193.8 mg/kg bw/day	104 week(s)	Rat (male / female)	No carcinogenic effect		Read-across

### succinic anhydride

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 453	> 100 mg/kg bw/day	2 year(s)	Rat (male / female)	No carcinogenic effect		Experimental value

### 2-hydroxyethyl methacrylate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation	NOAEC	Equivalent to OECD 451	≥ 2.05 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (female)	No carcinogenic effect		Experimental value
Inhalation	NOAEC	Equivalent to OECD 451	≥ 4.1 mg/l air	102 weeks (6h / day, 5 days / week)	Rat (male)	No carcinogenic effect		Experimental value
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 193.8 mg/kg bw/day	104 weeks (daily)	Rat (female)	No carcinogenic effect		Experimental value
Oral (drinking water)	NOAEL	Carcinogenic toxicity study	≥ 90.3 mg/kg bw/day	104 weeks (daily)	Rat (male)	No carcinogenic effect		Experimental value

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

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No (test)data on the mixture available

Classification is based on the relevant ingredients

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

BIG number: 45077

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## tetrahydrofurfuryl methacrylate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 422	120 mg/kg bw/day	≥ 29 days (gestation, daily)	Rat (female)	No effect		Experimental value
	Dose level (P)	OECD 422	300 mg/kg bw/day	≥ 29 days (gestation, daily)	Rat (female)	Increase in fetal death		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 422	120 mg/kg bw/day	≥ 29 day(s)	Rat (female)	No effect		Experimental value
	NOAEL	OECD 422	300 mg/kg bw/day	29 day(s)	Rat (male)	No effect		Experimental value

## 2-ethylhexyl methacrylate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	300 mg/kg bw/day	23 days (gestation, daily)	Rabbit	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	100 mg/kg bw/day	23 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 422	300 mg/kg bw/day	41 day(s) - 47 day (s)	Rat (female)	No effect		Experimental value
	NOAEL	OECD 422	1000 mg/kg bw/day	49 day(s)	Rat (male)	No effect		Experimental value

## succinic anhydride

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	140 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect	Foetus	Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	140 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	Equivalent to OECD 416	55 mg/kg bw/day	> 80 day(s)	Rat (male / female)	No effect		Experimental value

## 2-hydroxyethyl methacrylate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	450 mg/kg bw/day	23 day(s)	Rabbit (male / female)	No effect		Experimental value
	NOAEL	OECD 422	≥ 1000 mg/kg bw/day		Rat (male / female)	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOEL	OECD 414	50 mg/kg bw/day	23 day(s)	Rabbit	No effect		Experimental value
	NOAEL	OECD 414	450 mg/kg bw/day	23 day(s)	Rabbit	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL (P/F1)	Equivalent to OECD 422	≥ 1000 mg/kg bw/day		Rat (male / female)	No effect		Experimental value

### **Conclusion**

May damage the unborn child.

### **Toxicity other effects**

#### MEGAPLAST PPE, B

No (test)data on the mixture available

### **Chronic effects from short and long-term exposure**

#### MEGAPLAST PPE, B

Skin rash/inflammation.

### **11.2. Information on other hazards**

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### **12.1. Toxicity**

#### MEGAPLAST PPE, B

No (test)data on the mixture available

Classification is based on the relevant ingredients

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

BIG number: 45077

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# MEGAPLAST PPE, B

## tetrahydrofurfuryl methacrylate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	ASTM E-35.21	34.7 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	EC50		97.3 mg/l		Invertebrata		Fresh water	
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	100 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	37.2 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms								Data waiving

## 2-ethylhexyl methacrylate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	2.87 mg/l	96 h	Oryzias latipes	Semi-static system	Fresh water	Experimental value
Acute toxicity crustacea	EC50		2.18 mg/l		Invertebrata		Fresh water	
Toxicity algae and other aquatic plants	NOEC	OECD 201	0.28 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.105 mg/l	21 day(s)	Daphnia galeata	Semi-static system	Fresh water	Experimental value; Reproduction

## succinic anhydride

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 mg/l	96 h	Danio rerio	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	> 102 mg/l	48 h	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 100 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	100 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving
Toxicity aquatic micro-organisms	EC50	OECD 209	> 300 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration

## 2-hydroxyethyl methacrylate

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 100 mg/l	96 h	Oryzias latipes	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	OECD 202	380 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	836 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Nominal concentration
	NOEC	OECD 201	400 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	24.1 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro-organisms	EC0		> 3000 mg/l	16 h	Pseudomonas fluorescens	Semi-static system	Fresh water	Experimental value

### **Conclusion**

Harmful to aquatic life with long lasting effects.

### **12.2. Persistence and degradability**

# MEGAPLAST PPE, B

## tetrahydrofurfuryl methacrylate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301F	75 %; Oxygen consumption	28 day(s)	Experimental value

### Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	3.259 h	1.5E6 /cm <sup>3</sup>	Calculated value

## 2-ethylhexyl methacrylate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C	88 %; GLP	28 day(s)	No relevant data available

## [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301F	≥ 80 %; Oxygen consumption	28 day(s)	Experimental value

## succinic anhydride

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301E	96.55 %; GLP	28 day(s)	Experimental value

## 2-hydroxyethyl methacrylate

### Biodegradation water

Method	Value	Duration	Value determination
OECD 301C	92 % - 100 %; GLP	14 day(s)	Experimental value

## Conclusion

### Water

Does not contain any not readily biodegradable component(s)

## 12.3. Bioaccumulative potential

### MEGAPLAST PPE, B

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

## tetrahydrofurfuryl methacrylate

#### Log Kow

Method	Remark	Value	Temperature	Value determination
EU Method A.8		1.76	22.6 °C	Experimental value

## 2-ethylhexyl methacrylate

#### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	37; GLP	56 h	Danio rerio	Experimental value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		4.95	20 °C	Experimental value

## [2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate

#### Log Kow

Method	Remark	Value	Temperature	Value determination
EU Method A.8		0.782	23 °C	Experimental value

## succinic anhydride

#### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
					Data waiving

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		2.44	40 °C	Experimental value

## 2-hydroxyethyl methacrylate

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		0.42	25 °C	Experimental value

## Conclusion

Does not contain bioaccumulative component(s)

## 12.4. Mobility in soil

### tetrahydrofurfuryl methacrylate

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.402 - 1.765	Calculated value

# MEGAPLAST PPE, B

## 2-ethylhexyl methacrylate

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.750	Calculated value

## succinic anhydride

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	0.915	Calculated value

## 2-hydroxyethyl methacrylate

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	0.164 - 0.708	Calculated value

### **Conclusion**

Contains component(s) with potential for mobility in the soil

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

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

### **12.6. Endocrine disrupting properties**

No evidence of endocrine disrupting properties

### **12.7. Other adverse effects**

#### MEGAPLAST PPE, B

##### **Greenhouse gases**

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

##### **Ozone-depleting potential (ODP)**

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

##### **Groundwater**

Groundwater pollutant

#### tetrahydrofurfuryl methacrylate

##### **Groundwater**

Groundwater pollutant

#### 2-ethylhexyl methacrylate

##### **Groundwater**

Groundwater pollutant

#### succinic anhydride

##### **Groundwater**

Groundwater pollutant

#### 2-hydroxyethyl methacrylate

##### **Groundwater**

Groundwater pollutant

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### **13.1. Waste treatment methods**

#### **13.1.1 Provisions relating to waste**

##### **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### **13.1.2 Disposal methods**

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### **13.1.3 Packaging/Container**

##### **European Union**

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

### **Road (ADR)**

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

BIG number: 45077

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14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
	Hazard identification number	
	Class	
	Classification code	
14.4. Packing group		
	Packing group	
	Labels	
14.5. Environmental hazards		
	Environmentally hazardous substance mark	no
14.6. Special precautions for user		
	Special provisions	
	Limited quantities	

## Rail (RID)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
	Hazard identification number	
	Class	
	Classification code	
14.4. Packing group		
	Packing group	
	Labels	
14.5. Environmental hazards		
	Environmentally hazardous substance mark	no
14.6. Special precautions for user		
	Special provisions	
	Limited quantities	

## Inland waterways (ADN)

14.1. UN number	UN number	9006
14.2. UN proper shipping name	Proper shipping name	environmentally hazardous substance, liquid, n.o.s.
14.3. Transport hazard class(es)		
	Class	9
	Classification code	M12
14.4. Packing group		
	Packing group	
	Labels	
14.5. Environmental hazards		
	Environmentally hazardous substance mark	no
14.6. Special precautions for user		
	Special provisions	
	Limited quantities	

## Sea (IMDG/IMSBC)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
	Class	
14.4. Packing group		
	Packing group	
	Labels	
14.5. Environmental hazards		
	Marine pollutant	
	Environmentally hazardous substance mark	no
14.6. Special precautions for user		
	Special provisions	
	Limited quantities	
14.7. Maritime transport in bulk according to IMO instruments		
	Annex II of MARPOL 73/78	Not applicable, based on available data

## Air (ICAO-TI/IATA-DGR)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		

# MEGAPLAST PPE, B

## 14.3. Transport hazard class(es)

Class

## 14.4. Packing group

Packing group

Labels

## 14.5. Environmental hazards

Environmentally hazardous substance mark no

## 14.6. Special precautions for user

Special provisions

Passenger and cargo transport

Limited quantities: maximum net quantity per packaging

## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 %	
0 g/l	

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
<ul style="list-style-type: none"> <li>· tetrahydrofurfuryl methacrylate</li> <li>· 2-ethylhexyl methacrylate</li> <li>· 2-hydroxyethyl methacrylate</li> </ul>	<p>Liquid 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:</p> <p>(a) 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;</p> <p>(b) 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;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p>	<ol style="list-style-type: none"> <li>1. Shall not be used in:               <ul style="list-style-type: none"> <li>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>— tricks and jokes,</li> <li>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,</li> </ul> </li> <li>2. Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:               <ul style="list-style-type: none"> <li>— can be used as fuel in decorative oil lamps for supply to the general public, and,</li> <li>— present an aspiration hazard and are labelled with H304,</li> </ul> </li> <li>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</li> <li>5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:               <ol style="list-style-type: none"> <li>a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";</li> <li>b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</li> <li>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</li> </ol> </li> </ol>
<ul style="list-style-type: none"> <li>· succinic anhydride</li> <li>· 2-hydroxyethyl methacrylate</li> </ul>	<p>Substances falling within one or more of the following points:</p> <p>(a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:</p> <ul style="list-style-type: none"> <li>— carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation</li> <li>— reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation</li> <li>— skin sensitiser category 1, 1A or 1B</li> <li>— skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2</li> <li>— serious eye damage category 1 or eye irritant category 2</li> </ul> <p>(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council</p> <p>(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this</p>	<p>Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081</p>

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

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Annex.  
The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

## National legislation Belgium

MEGAPLAST PPE, B

No data available

## National legislation The Netherlands

MEGAPLAST PPE, B

Waterbezwaarlijkheid	Z (2); Algemene Beoordelingsmethodiek (ABM)
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## National legislation France

MEGAPLAST PPE, B

No data available

## National legislation Germany

MEGAPLAST PPE, B

Lagerklasse (TRGS510)	6.1C: Brennbare, akut toxische Kat. 3 / giftige oder chronisch wirkende Gefahrstoffe
WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
<u>tetrahydrofurfuryl methacrylate</u>	
TA-Luft	5.2.7.1.3
<u>2-ethylhexyl methacrylate</u>	
TA-Luft	5.2.5/I
<u>[2-[(2-methyl-1-oxoallyl)oxy]ethyl] hydrogen succinate</u>	
TA-Luft	5.2.5
<u>succinic anhydride</u>	
TA-Luft	5.2.5/I
<u>2-hydroxyethyl methacrylate</u>	
TA-Luft	5.2.5

## National legislation United Kingdom

MEGAPLAST PPE, B

No data available

## Other relevant data

MEGAPLAST PPE, B

No data available

succinic anhydride

IARC - classification	3; Succinic anhydride
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## 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

tetrahydrofurfuryl methacrylate

A chemical safety assessment has been performed.

## SECTION 16: Other information

### Full text of any H- and EUH-statements referred to under section 3:

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H360D May damage the unborn child.  
H412 Harmful to aquatic life with long lasting effects.  
EUH071 Corrosive to the respiratory tract.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ERC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration

Reason for revision: 9; 12

Publication date: 2007-09-04

Date of revision: 2021-07-26

Revision number: 0400

BIG number: 45077

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# MEGAPLAST PPE, B

OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.