

**Safety Data Sheet**

according to UK REACH Regulation

**PLASTIFLOOR® 114**

Revision date: 25.05.2021

Product code:

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

PLASTIFLOOR® 114

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Coatings.

**Uses advised against**

Any non-intended use.

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

Company name:	Plasti Chemie Produktionsgesellschaft mbH	
Street:	Falgardring 1	
Place:	D-08223 Falkenstein	
Telephone:	+49 (0)3745/74432-0	Telefax: +49 (0)3745/74432-27
e-mail:	volkmar.lull@plasti-chemie.de	
Contact person:	Hr. Volkmar Lull	Telephone: +49 (0)3745/74432-0
Internet:	www.plasti-chemie.de	
Responsible Department:	volkmar.lull@plasti-chemie.de	

**1.4. Emergency telephone****number:**

Chemtrec: 1-800-424-9300 for US  
+1 703-527-3887 outside US  
NHS Direct (UK): +44 (0) 845 46 47; 111

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Skin corrosion/irritation: Skin Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

2-hydroxyethyl methacrylate

Tetramethylene dimethacrylate

2-ethylhexyl acrylate

Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl]-(4-methylphenyl)amino]ethanol and 2,2'-

[(4-methylphenyl)imino]diethanol

2,2-bis[[[(mercaptoacetyl)oxy]methyl]-1,3-propanediyl bis(mercaptoacetate)]

**Signal word:**

Danger

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**Pictograms:**

**Hazard statements**

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

**Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.

**2.3. Other hazards**

In use, may form flammable/explosive vapour-air mixture.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	75 - < 80 %
	201-297-1	607-035-00-6
	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3; H225 H315 H317 H335	
868-77-9	2-hydroxyethyl methacrylate	7 - < 10 %
	212-782-2	607-124-00-X
	01-2119490169-29	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
2082-81-7	Tetramethylene dimethacrylate	3 - < 5 %
	218-218-1	01-2119967415-30
	Skin Sens. 1B; H317	
103-11-7	2-ethylhexyl acrylate	0.5 - < 1 %
	203-080-7	607-107-00-7
	01-2119453158-37	
	Skin Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 3; H315 H317 H335 H412	
-	Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol	0.5 - < 1 %
	911-490-9	01-2119979579-10
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 3; H302 H315 H318 H317 H412	
10193-99-4	2,2-bis[[[(mercaptoacetyl)oxy]methyl]-1,3-propanediyl bis(mercaptoacetate)]	< 0.1 %
	233-482-8	
	Acute Tox. 4, Skin Sens. 1A; H302 H317	

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	75 - < 80 %
		inhalation: LC50 = 29,8 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 = >5000 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	7 - < 10 %
		dermal: LD50 = > 5000 mg/kg; oral: LD50 = 5564 mg/kg	
2082-81-7	218-218-1	Tetramethylene dimethacrylate	3 - < 5 %
		dermal: LD50 = > 3000 mg/kg; oral: LD50 = (10,066) mg/kg	
103-11-7	203-080-7	2-ethylhexyl acrylate	0.5 - < 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 4435 mg/kg	
-	911-490-9	Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol	0.5 - < 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 619 mg/kg	
10193-99-4	233-482-8	2,2-bis[[[(mercaptoacetyl)oxy]methyl]-1,3-propanediyl bis(mercaptoacetate)	< 0.1 %
		oral: ATE = 500 mg/kg	

**Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

First aider: Pay attention to self-protection!

**After inhalation**

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

**After contact with eyes**

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.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**

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**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam.  
In case of major fire and large quantities: Atomized water.

**Unsuitable extinguishing media**

High power water jet.

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

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General measures**

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

**For non-emergency personnel**

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.  
Wear personal protection equipment. (See section 8.)

**For emergency responders**

No special measures are necessary.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Danger of explosion! Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up****For containment**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

Treat the recovered material as prescribed in the section on waste disposal.

**For cleaning up**

Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaustion at critical locations.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges.

Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

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#### Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing and wash it before reuse.

#### Further information on handling

General protection and hygiene measures: See section 8.

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

##### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

##### Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases.

Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

##### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: 5-25°C

#### 7.3. Specific end use(s)

See section 1.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
	Worker DNEL, long-term	inhalation	systemic	208 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	13.67 mg/kg bw/day
	Worker DNEL, long-term	dermal	local	1.5 mg/cm <sup>2</sup>
	Worker DNEL, acute	dermal	local	1.5 mg/cm <sup>2</sup>
	Worker DNEL, long-term	inhalation	local	208 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	systemic	74.3 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	104 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	8.2 mg/kg bw/day
	Consumer DNEL, long-term	dermal	local	1.5 mg/cm <sup>2</sup>

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Consumer DNEL, acute	dermal	local	1.5 mg/cm <sup>2</sup>
868-77-9	2-hydroxyethyl methacrylate		
Consumer DNEL, long-term	dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m <sup>3</sup>
Consumer DNEL, long-term	oral	systemic	0,83 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	1,3 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	4,9 mg/m <sup>3</sup>
2082-81-7	Tetramethylene dimethacrylate		
Worker DNEL, long-term	inhalation	systemic	14,5 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	4,3 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day
-	Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl][(4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol		
Worker DNEL, long-term	inhalation	systemic	9,8 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	systemic	1,4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,83 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
Environmental compartment		Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	
Freshwater		0.94 mg/l
Marine water		0.94 mg/l
Freshwater sediment		5.74 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1.47 mg/kg
868-77-9	2-hydroxyethyl methacrylate	
Freshwater		0,482 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,482 mg/l
Marine water (intermittent releases)		1 mg/l
Freshwater sediment		3,79 mg/kg
Marine sediment		3,79 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,476 mg/kg
2082-81-7	Tetramethylene dimethacrylate	
Freshwater		0,043 mg/l
Freshwater (intermittent releases)		0,098 mg/l

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Marine water	0,004 mg/l
Freshwater sediment	3,12 mg/kg
Marine sediment	0,312 mg/kg
Micro-organisms in sewage treatment plants (STP)	2 mg/l
Soil	0,573 mg/kg
-	Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol
Freshwater	0,048 mg/l
Freshwater (intermittent releases)	0,48 mg/l
Marine water	0,005 mg/l
Freshwater sediment	1,2 mg/kg
Marine sediment	0,12 mg/kg
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,21 mg/kg

#### 8.2. Exposure controls



##### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

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

###### Eye/face protection

Recommended eye protection brand: Tightly sealed safety glasses. (BS/EN 166)

###### Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.

Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  480 min. penetration time (maximum wearing period): ~ 120 min. (estimated)

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

###### Skin protection

Wear fire/flame resistant/retardant clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

###### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates)

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that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

#### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	white, cloudy
Odour:	characteristic

#### Test method

#### Changes in the physical state

Melting point/freezing point:	not applicable
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	10 (MMA) °C DIN 51755

#### Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	2,1 (MMA) vol. %
Upper explosion limits:	12,5 (MMA) vol. %
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined

#### Oxidizing properties

none.

pH-Value:	not determined
Viscosity / dynamic: (at 40 °C)	not determined
Viscosity / kinematic: (at 20 °C)	not determined
Flow time:	not determined
Water solubility:	insoluble

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	38,7 (MMA) hPa
Density:	not determined
Relative vapour density:	not determined

### 9.2. Other information

#### Other safety characteristics

Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Evaporation rate:	not determined

#### Further Information



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No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

 Reacts with : Amines  
 Refer to chapter 10.5.

### 10.4. Conditions to avoid

 Keep away from heat. Danger of explosion!  
 In use may form flammable/explosive vapour-air mixture.  
 Heating causes rise in pressure with risk of bursting.

### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Strong acid.

### 10.6. Hazardous decomposition products

 Does not decompose when used for intended uses.  
 Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Toxicokinetics, metabolism and distribution

No data available.

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	WoE
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA Dossier	OECD Guideline 402
	inhalation (4 h) aerosol	LC50	29,8 mg/l	Rat	ECHA Dossier	
868-77-9	2-hydroxyethyl methacrylate					
	oral	LD50 mg/kg	5564	Rat	ECHA dossier	
	dermal	LD50 mg/kg	> 5000	Rabbit	ECHA dossier	
2082-81-7	Tetramethylene dimethacrylate					
	oral	LD50 mg/kg	(10,066)	Rat	Study report (1978)	OECD Guideline 401
	dermal	LD50 mg/kg	> 3000	Rabbit	Kirk-Othmer, Encyclopedia of chemical te	
103-11-7	2-ethylhexyl acrylate					
	oral	LD50 mg/kg	4435	Rat	ECHA Dossier	

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	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier	
-	Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl)imino]diethanol					
	oral	LD50 mg/kg	619	Rat	Study report (1996)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2013)	OECD Guideline 402
10193-99-4	2,2-bis[[[(mercaptoacetyl)oxy]methyl]-1,3-propanediyl bis(mercaptoacetate)]					
	oral	ATE mg/kg	500			

**Irritation and corrosivity**

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

May cause an allergic skin reaction. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; 2-hydroxyethyl methacrylate; Tetramethylene dimethacrylate; 2-ethylhexyl acrylate; Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl)imino]diethanol; 2,2-bis[[[(mercaptoacetyl)oxy]methyl]-1,3-propanediyl bis(mercaptoacetate)])

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation. (methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate)

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

No data available.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

No data available.

**SECTION 12: Ecological information**
**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate					
	Acute fish toxicity	LC50	>79 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier EPA OTS 797.1400
	Acute algae toxicity	ErC50 mg/l	>110	72 h	Pseudokirchnerella subcapitata	ECHA Dossier OECD Guideline 201
	Acute crustacea toxicity	EC50	69 mg/l	48 h	Daphnia magna	ECHA Dossier EPA OTS 797.1300
	Fish toxicity	NOEC	9,4 mg/l	35 d	Brachydanio rerio	ECHA Dossier
	Crustacea toxicity	NOEC	37 mg/l	21 d	Daphnia magna	ECHA Dossier OECD Guideline 211
	Acute bacteria toxicity	(100 mg/l)			activated sludge	ECHA Dossier OECD 301C

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868-77-9						
2-hydroxyethyl methacrylate						
Acute fish toxicity	LC50 mg/l	> 100	96 h	Oryzias latipes	ECHA dossier	OECD 203
Acute algae toxicity	ErC50	836 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA dossier	OECD 201
Acute crustacea toxicity	EC50	380 mg/l	48 h	Daphnia magna	ECHA dossier	OECD 202
Crustacea toxicity	NOEC mg/l	(24,1)	21 d	Daphnia magna	ECHA dossier	OECD 211
Acute bacteria toxicity		(8560 mg/l)	3 h		ECHA dossier	Method: TTC test according to DEV L3
2082-81-7						
Tetramethylene dimethacrylate						
Acute algae toxicity	ErC50 mg/l	(4,97)	72 h	Desmodesmus subspicatus	REACH Dossier	OECD Guideline 201
Crustacea toxicity	NOEC mg/l	5,09	21 d	Daphnia magna	REACH Dossier	OECD Guideline 211
103-11-7						
2-ethylhexyl acrylate						
Acute fish toxicity	LC50 mg/l	1,81	96 h	Oncorhynchus mykiss	ECHA Dossier	
Acute algae toxicity	ErC50 mg/l	1,71	72 h	Desmodesmus subspicatus	ECHA Dossier	
Acute crustacea toxicity	EC50	1,3 mg/l	48 h	Daphnia magna	ECHA Dossier	
-						
Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol						
Acute fish toxicity	LC50 mg/l	> 100	96 h	Cyprinus carpio	REACH Registration Dossier	OECD Guideline 203
Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	REACH Registration Dossier	OECD Guideline 201
Acute crustacea toxicity	EC50	(48) mg/l	48 h	Daphnia magna	REACH Registration Dossier	OECD Guideline 202
Acute bacteria toxicity		(> 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	REACH Registration Dossier	OECD Guideline 209

**12.2. Persistence and degradability**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate			
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	94%	14	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
868-77-9	2-hydroxyethyl methacrylate			
	OECD 301 C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	>92%	14	ECHA dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
103-11-7	2-ethylhexyl acrylate			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	>80%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

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#### **12.3. Bioaccumulative potential**

##### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	1,32
868-77-9	2-hydroxyethyl methacrylate	0,42
2082-81-7	Tetramethylene dimethacrylate	3,1
103-11-7	2-ethylhexyl acrylate	4,64 (25°C)
-	Reaction mass of 2-[[2-(2-hydroxyethoxy)ethyl]-(4-methylphenyl)amino]ethanol and 2,2'-[[4-methylphenyl]imino]diethanol	2

##### **BCF**

CAS No	Chemical name	BCF	Species	Source
868-77-9	2-hydroxyethyl methacrylate	1,34 - 1,54		McGraw-Hill, New Yor

#### **12.4. Mobility in soil**

No data available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

No data available.

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

No data available.

#### **Further information**

Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

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

##### **Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

##### **List of Wastes Code - residues/unused products**

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

##### **List of Wastes Code - used product**

080299 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); wastes not otherwise specified

##### **List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

##### **Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

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**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** RESIN SOLUTION  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 640D  
Limited quantity: 5 L  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 33  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** Resin solution  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Classification code: F1  
Special Provisions: 640D  
Limited quantity: 5 L  
Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 1866  
**14.2. UN proper shipping name:** RESIN SOLUTION  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** II  
Hazard label: 3



Marine pollutant: NO  
Special Provisions: -  
Limited quantity: 5 L  
Excepted quantity: E2  
EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1866

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**14.2. UN proper shipping name:** RESIN SOLUTION

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3



Special Provisions: A3

Limited quantity Passenger: 1 L

Passenger LQ: Y341

Excepted quantity: E2

IATA-packing instructions - Passenger: 353

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 364

IATA-max. quantity - Cargo: 60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

See section 8.

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

not relevant.

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): not determined

2004/42/EC (VOC): not determined

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No (mixture): 3, 40

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate

2-hydroxyethyl methacrylate

Tetramethylene dimethacrylate

2-ethylhexyl acrylate

**SECTION 16: Other information**

**Changes**

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**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
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.

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H412 Harmful to aquatic life with long lasting effects.

**Further Information**

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*