



according to UK REACH Regulation

PLASTIFLOOR® 418

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

1.1. Product identifier

PLASTIFLOOR® 418

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
 Chemtrec: 1-800-424-9300 for US

 number:
 +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 Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes skin irritation.

May cause an allergic skin reaction. May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

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

2-ethylhexyl acrylate

Tetramethylene dimethacrylate

n-butyl methacrylate Dibutyl maleate

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.

H412 Harmful to aquatic life with long lasting effects.

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					
	EC No	Index No	REACH No			
	GHS Classification					
80-62-6	methyl methacrylate; methyl 2-me	ethylprop-2-enoate; methyl	2-methylpropenoate	45 - < 50 %		
	201-297-1	607-035-00-6	01-2119452498-28			
	Flam. Liq. 2, Skin Irrit. 2, Skin Sei	ns. 1, STOT SE 3; H225 H3	315 H317 H335			
103-11-7	2-ethylhexyl acrylate			25 - < 30 %		
	203-080-7	607-107-00-7	01-2119453158-37			
	Skin Irrit. 2, Skin Sens. 1, STOT S	SE 3, Aquatic Chronic 3; H3	315 H317 H335 H412			
2082-81-7	Tetramethylene dimethacrylate	3 - < 5 %				
	218-218-1		01-2119967415-30			
	Skin Sens. 1B; H317					
97-88-1	n-butyl methacrylate	1 - < 3 %				
	202-615-1	607-033-00-5	01-2119486394-28			
	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit.					
105-76-0	Dibutyl maleate	1 - < 3 %				
	203-328-4		01-2119523581-45			
	Skin Sens. 1, STOT RE 2, Aquati					
-	Reaction mass of 2-{[2-(2-hydrox] [(4-methylphenyl)imino]diethanol	0.5 - < 1 %				
	911-490-9		01-2119979579-10			



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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	-6 201-297-1 methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate				
	inhalation: L0 >5000 mg/kg	250 = 29,8 mg/l (dusts or mists); dermal: LD50 = > 5000 mg/kg; oral: LD50 =			
103-11-7	203-080-7	2-ethylhexyl acrylate	25 - < 30 %		
	dermal: LD50) = >2000 mg/kg; oral: LD50 = 4435 mg/kg			
2082-81-7	218-218-1	Tetramethylene dimethacrylate	3 - < 5 %		
	dermal: LD50) = > 3000 mg/kg; oral: LD50 = (10,066) mg/kg			
97-88-1	202-615-1	n-butyl methacrylate	1 - < 3 %		
	inhalation: L0 mg/kg	C50 = 29 mg/l (dusts or mists); dermal: LD50 = 10181 mg/kg; oral: LD50 = > 17900			
105-76-0	203-328-4	Dibutyl maleate	1 - < 3 %		
	dermal: LD50) = > 2000 mg/kg; oral: LD50 = >= 3730 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)	0.2 - < 0.3 %		
	oral: ATE = 5	00 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.

Plasti Chemie Produktionsgesellschaft mbH



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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

Suitable extinguishing media

Carbon dioxide (CO2). 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 (CO2).

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



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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.

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 absorbtion 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/m³	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			
DNEL type		Exposure route	Effect	Value
80-62-6	methyl methacrylate; methyl 2-methylprop-2-enoate; methy	I 2-methylpropenoate		
Worker DNEL,	long-term	inhalation	systemic	208 mg/m³
Worker DNEL,	long-term	dermal	systemic	13.67 mg/kg bw/day
Worker DNEL, long-term		dermal	local	1.5 mg/cm ²



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Worker DNEL, acute	dermal	local	1.5 mg/cm²
Worker DNEL, long-term	inhalation	local	208 mg/m³
Consumer DNEL, long-term	inhalation	systemic	74.3 mg/m³
Consumer DNEL, long-term	inhalation	local	104 mg/m³
Consumer DNEL, long-term	dermal	systemic	8.2 mg/kg bw/day
Consumer DNEL, long-term	dermal	local	1.5 mg/cm ²
Consumer DNEL, acute	dermal	local	1.5 mg/cm ²
2082-81-7 Tetramethylene dimethacrylate	<u> </u>	<u> </u>	
Worker DNEL, long-term	inhalation	systemic	14,5 mg/m³
Worker DNEL, long-term	dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	4,3 mg/m³
Consumer DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	2,5 mg/kg bw/day
97-88-1 n-butyl methacrylate			
Worker DNEL, long-term	dermal	local	1 %
Worker DNEL, acute	dermal	local	1 %
Consumer DNEL, long-term	dermal	local	1 %
Consumer DNEL, acute	dermal	local	1 %
Consumer DNEL, long-term	inhalation	systemic	66,5 mg/m³
Consumer DNEL, long-term	dermal	systemic	3 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local	366,4 mg/m³
Worker DNEL, long-term	inhalation	local	409 mg/m³
Worker DNEL, long-term	dermal	systemic	5 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	415,9 mg/m³
105-76-0 Dibutyl maleate			
Worker DNEL, long-term	inhalation	systemic	5,28 mg/m ³
Worker DNEL, long-term	inhalation	local	5,28 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,42 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	24,2 mg/kg bw/day
Worker DNEL, long-term	dermal	local	4,12 mg/cm ²
Consumer DNEL, long-term	oral	systemic	0,25 mg/kg bw/day
- Reaction mass of 2-{[2-(2-hydroxyethoxy)ethyl](4-m [(4-methylphenyl)imino]diethanol	nethylphenyl)amino}ethan	ol and 2,2'-	
Worker DNEL, long-term	inhalation	systemic	9,8 mg/m³
Worker DNEL, long-term	dermal	systemic	1,4 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,9 mg/m³
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	
Environmental	compartment	Value



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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 se	ediment	5.74 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	10 mg/l
Soil		1.47 mg/kg
2082-81-7	Tetramethylene dimethacrylate	
Freshwater		0,043 mg/l
Freshwater (i	ntermittent releases)	0,098 mg/l
Marine water		0,004 mg/l
Freshwater se	ediment	3,12 mg/kg
Marine sedim	nent	0,312 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	2 mg/l
Soil		0,573 mg/kg
97-88-1	n-butyl methacrylate	
Freshwater		0,017 mg/l
Freshwater (i	ntermittent releases)	0,056 mg/l
Marine water		0,002 mg/l
Freshwater se	ediment	4,73 mg/kg
Marine sedim	nent	0,473 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	31,7 mg/l
Soil		0,935 mg/kg
105-76-0	Dibutyl maleate	
Freshwater		0,001 mg/l
Freshwater (i	ntermittent releases)	0,006 mg/l
Marine water		0 mg/l
Freshwater se	ediment	0,031 mg/kg
Marine sedim	nent	0,003 mg/kg
Secondary po	pisoning	6,33 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	4,886 mg/l
Soil		0,006 mg/kg
-	Reaction mass of 2-{[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino}ethanol and 2,2 [(4-methylphenyl)imino]diethanol	y
Freshwater		0,048 mg/l
Freshwater (i	ntermittent releases)	0,48 mg/l
Marine water		0,005 mg/l
Freshwater s	ediment	1,2 mg/kg
Marine sedim	nent	0,12 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	10 mg/l
Soil		0,21 mg/kg

8.2. Exposure controls



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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 >= 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)

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: violet

Odour: characteristic

Test method

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

not applicable
not determined

boiling range:

Flash point: 10 (MMA) °C DIN 51755



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Explosive properties

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

Lower explosion limits:

Upper explosion limits:

Auto-ignition temperature:

not determined

not determined

not determined

not determined

Oxidizing properties

none.

pH-Value: not determined Viscosity / dynamic: not determined

(at 40 °C)

Viscosity / kinematic: not determined

(at 20 °C)

Flow time: not determined Water solubility: insoluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Vapour pressure: 38,7 (MMA) hPa

(at 20 °C)

Density (at 20 °C): not determined Relative vapour density: not determined

9.2. Other information

Other safety characteristics

Solvent separation test:

Solvent content:

not determined
not determined
not determined
rot determined
not determined
not determined
rot determined

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Can polymerise exothermically if heated, exposed to air, sunlight or by addition or 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.



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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 (CO2).

SECTION 11: Toxicological information

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

Toxicocinetics, 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				
103-11-7	2-ethylhexyl acrylate								
	oral	LD50 mg/kg	4435	Rat	ECHA Dossier				
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier				
2082-81-7	Tetramethylene dimethad	crylate							
	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				
97-88-1	n-butyl methacrylate								
	oral	LD50 mg/kg	> 17900	Rat	J. Ind. Hyg. Toxicol. 23: 343-351 (1941)	other: pre-guideline development			
	dermal	LD50 mg/kg	10181	Rabbit	Amer. Ind. Hyg. Assoc. J. Vol 30 (5): 47	other			
	inhalation (4 h) aerosol	LC50	29 mg/l	Rat	ECHA Dossier				
105-76-0	Dibutyl maleate								
	oral	LD50 mg/kg	>= 3730	Rat	Publication (1954)	Follows basic principles of an OECD401 b			
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1992)	OECD Guideline 402			
	Reaction mass of 2-{[2-(2 [(4-methylphenyl)imino]d		hoxy)ethyl](4-	methylphenyl)amir	no}ethanol and 2,2'-				
	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-propane	diyl bis(mercaptoad	cetate)				



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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-ethylhexyl acrylate; Tetramethylene dimethacrylate; n-butyl methacrylate; Dibutyl maleate; 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; 2-ethylhexyl acrylate)

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; met	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	/I)		activated sludge	ECHA Dossier	OECD 301C				
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					
2082-81-7	Tetramethylene dimethac	rylate									
	Acute algae toxicity	ErC50 mg/l	(4,97)	72 h	Desmodesmus subspicatus	REACH Dossier	OECD Guideline 201				



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	Crustacea toxicity	NOEC mg/l	5,09	21 d	Daphnia magna	REACH Dossier	OECD Guideline 211			
97-88-1	n-butyl methacrylate						•			
	Acute fish toxicity	LC50	11 mg/l	96 h	Pimephales promelas	Study report (1993)	OECD Guideline 203			
	Acute algae toxicity	ErC50 mg/l	31,2	72 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	25,4	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202			
	Crustacea toxicity	NOEC	1,1 mg/l	21 d	Daphnia magna	Study report (1998)	OECD Guideline 211			
105-76-0	Dibutyl maleate									
	Acute fish toxicity	LC50	1,2 mg/l	96 h	Oncorhynchus mykiss	Study report (1991)	OECD Guideline 203			
	Acute algae toxicity	ErC50	6,2 mg/l	72 h	Desmodesmus subspicatus	Study report (1992)	OECD Guideline 201			
	Acute bacteria toxicity	(488,6 n	ng/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (2010)	OECD Guideline 209			
	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)									
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).									
97-88-1	n-butyl methacrylate									
	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F	88%	28	ECHA Dossier						
	Readily biodegradable (according to OECD criteria).									

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



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103-11-7	2-ethylhexyl acrylate	4,64 (25°C)
2082-81-7	Tetramethylene dimethacrylate	3,1
97-88-1	n-butyl methacrylate	2,99
105-76-0	Dibutyl maleate	3,39
-	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
97-88-1	n-butyl methacrylate	70		J. Fish Board Can. 3
105-76-0	Dibutyl maleate	81,34		U.S. Environmental P

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.

SECTION 14: Transport information

Land transport (ADR/RID)

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Safety Data Sheet

according to UK REACH Regulation

PLASTIFLOOR® 418 Product code:

14.1. UN number: UN 1866

14.2. UN proper shipping name: RESIN SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIHazard 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 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIHazard 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):314.4. Packing group:IIHazard label:3



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

E2

EmS:

F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1866

14.2. UN proper shipping name: RESIN SOLUTION

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



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Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-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

2010/75/EU (VOC): not determined 2004/42/EC (VOC): not determined

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

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): 2 - obviously 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-ethylhexyl acrylate

Tetramethylene dimethacrylate

SECTION 16: Other information

Changes

Rev. 1.00; Initial release: 25.05.2021

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



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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
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	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.
H373	May cause damage to organs through prolonged or repeated
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Further Information

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

exposure.





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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.

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