

Safety Data Sheet

according to UK REACH Regulation

BergoLED Speed-Repair Putty 4L1000, colourless

Revision date: 16.06.2025

Product code: A1022030

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

BergoLED Speed-Repair Putty 4L1000, colourless

Product group: Produkt
UFI: QF0R-9FHP-JDD4-US91

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

Putty

1.3. Details of the supplier of the safety data sheet

Company name: Bergolin GmbH & Co. KG
Street: Sachsenring 1
Place: D-27711 Osterholz-Scharmbeck
Telephone: +49 4795 95899 0
e-mail: info@bergolin.de
Contact person: Gefahrstoffmanagement
e-mail: sdb@bergolin.de
Internet: www.bergolin.de
Responsible Department: Sicherheitsdatenblattverwaltung

1.4. Emergency telephone

+49 4795 95899 0

number:

Only available during office hours. (8-16 CET)

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

Skin Irrit. 2; H315
Eye Dam. 1; H318
Skin Sens. 1; H317
STOT SE 3; H335
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

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

Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
Tricyclodecane dimethanol Diacrylate
Dipropyleneglycoldiacrylate
Ethoxylated trimethylolpropane
Pentaerythritol tetrakis(3-mercaptopropionate)
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
tripropyleneglycoldiacrylate
2-hydroxyethyl acrylate
Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide

Signal word: Danger

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Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Polyacrylate resin system

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
5888-33-5	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate			20 - < 25 %
	227-561-6		01-2119957862-25	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H315 H319 H317 H335 H400 H410			
42594-17-2	Tricyclodecane dimethanol Diacrylate			10 - < 15 %
	255-901-3		01-2150051112-76	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
57472-68-1	Dipropyleneglycoldiacrylate			5 - < 10 %
	260-754-3		01-2119484629-21	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317			
28961-43-5	Ethoxylated trimethylolpropane			1 - < 5 %
	500-066-5		01-2119489900-30	
	Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H319 H317 H412			
7575-23-7	Pentaerythritol tetrakis(3-mercaptopropionate)			1 - < 5 %
	231-472-8			
	Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H317 H400 H410			
128-37-0	2,6-Di-tert-Butyl-p-Kresol			1 - < 5 %
	204-881-4		01-2119555270-46	
	Aquatic Chronic 1; H410			
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate			1 - < 5 %
	282-810-6		01-2119987994-10	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
42978-66-5	tripropyleneglycoldiacrylate			1 - < 5 %
	256-032-2		01-2119484613-34	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2; H315 H319 H317 H335 H411			
127519-17-9	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates			1 - < 5 %
	407-000-3	607-281-00-4		
	Aquatic Chronic 2; H411			
818-61-1	2-hydroxyethyl acrylate			< 1 %
	212-454-9		01-2119459345-34	
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3; H312 H302 H314 H317 H412			
162881-26-7	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide			< 0.1 %
	423-340-5		01-2119489401-38	
	Skin Sens. 1A, Aquatic Chronic 4; H317 H413			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
5888-33-5	227-561-6	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	20 - < 25 %
		dermal: LD50 = >3000 mg/kg; oral: LD50 = 5750 mg/kg M acute; H400: M=1 M chron.; H410: M=1	
42594-17-2	255-901-3	Tricyclodecane dimethanol Diacrylate	10 - < 15 %
		oral: LD50 = >2000 mg/kg	
57472-68-1	260-754-3	Dipropyleneglycoldiacrylate	5 - < 10 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 3530 mg/kg	
28961-43-5	500-066-5	Ethoxylated trimethylolpropane	1 - < 5 %
		dermal: LD50 = >13200 mg/kg; oral: LD50 = >2000 mg/kg	
7575-23-7	231-472-8	Pentaerythritol tetrakis(3-mercaptopropionate)	1 - < 5 %
		inhalation: LC50 = >3,36 mg/l (vapours); oral: LD50 = 1000-2000 mg/kg	
128-37-0	204-881-4	2,6-Di-tert-Butyl-p-Kresol	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2930 mg/kg M chron.; H410: M=1	
84434-11-7	282-810-6	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
42978-66-5	256-032-2	tripropyleneglycoldiacrylate	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
127519-17-9	407-000-3	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
818-61-1	212-454-9	2-hydroxyethyl acrylate	< 1 %
		dermal: ATE = 1100 mg/kg; oral: LD50 = 1070 mg/kg Skin Sens. 1; H317: >= 0,2 - 100	
162881-26-7	423-340-5	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide	< 0.1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.
Never give anything by mouth to an unconscious person or a person with cramps.
If unconscious place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.
After contact with skin, wash immediately with plenty of water and soap.
Do not wash with: Solvents/Thinner.
Following skin contact: Avoid: UV-radiation/sunlight.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO₂)-Extinguishing blanket, Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Use only in well-ventilated areas. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Never use pressure to empty container. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep/Store only in original container. Do not allow to enter into surface water or drains.

Further information on handling

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV)

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Notice the directions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

Keep/Store only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
128-37-0	2,6-Di-tert-butyl-p-cresol	-	10		TWA (8 h)	WEL
14807-96-6	Talc respirable dust	-	1		TWA (8 h)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
5888-33-5	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate			
Worker DNEL, long-term	dermal	systemic	1,39 mg/kg bw/day	
Consumer DNEL, long-term	dermal	systemic	0,83 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	0,83 mg/kg bw/day	
57472-68-1	Dipropyleneglycoldiacrylate			
Worker DNEL, long-term	inhalation	systemic	24,48 mg/m ³	
Worker DNEL, long-term	dermal	systemic	2,77 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	7,24 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	1,66 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	2,08 mg/kg bw/day	
28961-43-5	Ethoxylated trimethylolpropane			
Worker DNEL, long-term	dermal	systemic	0,8 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	4,9 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	1,4 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	16,2 mg/m ³	
128-37-0	2,6-Di-tert-Butyl-p-Kresol			
Worker DNEL, long-term	dermal		4,7 mg/kg bw/day	
Worker DNEL, long-term	inhalation		4,4 mg/m ³	
Consumer DNEL, long-term	oral		0,25 mg/kg bw/day	
Consumer DNEL, long-term	dermal		1,7 mg/kg bw/day	
Consumer DNEL, long-term	inhalation		0,78 mg/m ³	
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate			
Worker DNEL, long-term	dermal	systemic	1,4 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	4,93 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	0,87 mg/m ³	
Consumer DNEL, long-term	oral	systemic	0,5 mg/kg bw/day	
Consumer DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day	
42978-66-5	tripropyleneglycoldiacrylate			
Worker DNEL, long-term	dermal	systemic	2,77 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	24,48 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	1,66 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	7,24 mg/m ³	
Consumer DNEL, long-term	oral	systemic	2,08 mg/kg bw/day	

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127519-17-9	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates		
Worker DNEL, long-term	dermal	systemic	0,35 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	0,25 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,125 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,04 mg/m ³
Consumer DNEL, long-term	oral	systemic	0,025 mg/kg bw/day
162881-26-7	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide		
Worker DNEL, long-term	inhalation	systemic	21 mg/m ³
Worker DNEL, long-term	dermal	systemic	3,3 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	5,2 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,5 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	1,5

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PNEC values

CAS No	Substance	
Environmental compartment		Value
5888-33-5	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	
Freshwater		0,00092 mg/l
Marine water		0,000092 mg/l
Freshwater sediment		0,145 mg/kg
Marine sediment		0,0145 mg/kg
Soil		0,0285 mg/kg
57472-68-1	Dipropyleneglycoldiacrylate	
Freshwater		0,0034 mg/l
Marine water		0,00034 mg/l
Freshwater sediment		0,00884 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,0013 mg/kg
28961-43-5	Ethoxylated trimethylolpropane	
Freshwater		0,00195 mg/l
Marine water		0,000195 mg/l
Freshwater sediment		0,0082 mg/kg
Marine sediment		0,00082 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,006 mg/kg
128-37-0	2,6-Di-tert-Butyl-p-Kresol	
Freshwater		0,000199 mg/l
Marine water		0,00002 mg/l
Freshwater sediment		0,0996 mg/kg
Marine sediment		0,00996 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,17 mg/l
Soil		0,04769 mg/kg
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	
Freshwater		0,00101 mg/l
Marine water		0,000101 mg/l
Freshwater sediment		0,24 mg/kg
Marine sediment		0,024 mg/kg
Soil		0,047 mg/kg
42978-66-5	tripropyleneglycoldiacrylate	
Freshwater		0,0073 mg/l
Marine water		0,00073 mg/l
Freshwater sediment		0,019 mg/kg
Soil		0,00243 mg/kg
127519-17-9	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates	
Freshwater		0,0425 mg/l
Marine water		0,00425 mg/l

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Freshwater sediment	7280 mg/l
Marine sediment	728 mg/l
Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	1450 mg/l
162881-26-7	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide
Freshwater	0,001 mg/l
Marine water	0,001 mg/l
Freshwater sediment	0,712 mg/kg
Marine sediment	0,712
Micro-organisms in sewage treatment plants (STP)	1 mg/l
Soil	20 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

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. Observe the wear time limits as specified by the manufacturer.

Suitable material: NBR (Nitrile rubber) (Wear cotton undermitten if possible.)

Breakthrough time (maximum wearing time): ____ min.

Unsuitable material: PVC (polyvinyl chloride), rubber gloves.

Use protective skin cream before handling the product.

Skin protection

Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

Do not breathe dust/fume/gas/mist/vapours/spray. Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

Test method

Changes in the physical state

Boiling point or initial boiling point and boiling range:

104 °C

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Flash point:	> 100 °C DIN 53213
Auto-ignition temperature:	240 °C
Flow time: (at 20 °C)	> 100 6 DIN EN ISO 2431
Vapour pressure: (at 20 °C)	0,013 hPa
Vapour pressure: (at 50 °C)	0,021 hPa
Density (at 20 °C):	1,09 g/cm ³ DIN 53217

9.2. Other information

Other safety characteristics

Solvent separation test: <3 % (Land transport (ADR/RID))

Solvent content: 0,88 %

Solid content: 99,12 %

Further Information

SECTION 10: Stability and reactivity

10.2. Chemical stability

Decomposition temperature: ____ °C

May cause decomposition by long-term light influence.

10.3. Possibility of hazardous reactions

Danger: Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

Keep away from: Peroxides, Radical former, Alkali (lye), Metal

10.4. Conditions to avoid

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

10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO₂), Carbon monoxide

SECTION 11: Toxicological information

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

Acute toxicity

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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
5888-33-5	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate				
	oral	LD50 5750 mg/kg	Rat		
	dermal	LD50 >3000 mg/kg	Rabbit		
42594-17-2	Tricyclodecane dimethanol Diacrylate				
	oral	LD50 >2000 mg/kg	Rat		
57472-68-1	Dipropyleneglycoldiacrylate				
	oral	LD50 3530 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
28961-43-5	Ethoxylated trimethylolpropane				
	oral	LD50 >2000 mg/kg	Ratte		
	dermal	LD50 >13200 mg/kg	Rabbit		
7575-23-7	Pentaerythritol tetrakis(3-mercaptopropionate)				
	oral	LD50 1000-2000 mg/kg	Rat.		
	inhalation vapour	LC50 >3,36 mg/l	Rat.		
128-37-0	2,6-Di-tert-Butyl-p-Kresol				
	oral	LD50 >2930 mg/kg	Ratte		
	dermal	LD50 >2000 mg/kg	Ratte		
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
42978-66-5	tripropyleneglycoldiacrylate				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
127519-17-9	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
818-61-1	2-hydroxyethyl acrylate				
	oral	LD50 1070 mg/kg	Rat		
	dermal	ATE 1100 mg/kg			

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162881-26-7	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide				
	oral	LD50 mg/kg	>2000	Rat	
	dermal	LD50 mg/kg	>2000	Rat	

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; Tricyclodecane dimethanol Diacrylate; Dipropylene glycoldiacrylate; Ethoxylated trimethylolpropane; Pentaerythritol tetrakis(3-mercaptopropionate); ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate; tripropylene glycoldiacrylate; 2-hydroxyethyl acrylate; Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 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.

Practical experience

Acrylate-resin - Irritant.

May cause sensitization by skin contact. May cause an allergic skin reaction.

Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

Ingestion causes nausea, weakness and central nervous system effects.

Further information

There are no data available on the mixture itself.

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

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

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according to UK REACH Regulation

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
5888-33-5	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate					
	Acute fish toxicity	LC50 0,704 mg/l	96 h	Danio rerio		
	Acute algae toxicity	ErC50 1,83 mg/l	72 h	Pseudokirchnerella subcapitata		
	Algae toxicity	NOEC 0,405 mg/l	3 d			
	Crustacea toxicity	NOEC 0,092 mg/l	21 d			
42594-17-2	Tricyclodecane dimethanol Diacrylate					
	Acute fish toxicity	LC50 1,65 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 1,6 mg/l	72 h	Pseudokirchnerella subcapitata		
	Acute crustacea toxicity	EC50 2,36 mg/l	48 h	Daphnia magna (Big water flea)		
57472-68-1	Dipropyleneglycoldiacrylate					
	Acute fish toxicity	LC50 5 mg/l	96 h	Brachydanio rerio		
	Acute algae toxicity	ErC50 10 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 10 mg/l	48 h	Daphnia magna		
	Acute bacteria toxicity	(EC50 1000 mg/l)	0,5 h			
28961-43-5	Ethoxylated trimethylolpropane					
	Acute fish toxicity	LC50 1,95 mg/l	96 h	Danio rerio		
	Acute algae toxicity	ErC50 2,2 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 70,7 mg/l	48 h	Daphnia magna		
128-37-0	2,6-Di-tert-Butyl-p-Kresol					
	Acute fish toxicity	LC50 >0,57 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 >0,4 mg/l	72 h			
	Acute crustacea toxicity	EC50 >0,48 mg/l	48 h	Daphnia magna (Big water flea)		
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate					
	Acute fish toxicity	LC50 1,89 mg/l	96 h	Danio rerio		
	Acute algae toxicity	ErC50 1,01 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 2,26 mg/l	48 h	Daphnia magna		
127519-17-9	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 >2 mg/l	72 h	Desmodesmus subspicatus		

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	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna (Big water flea)		
818-61-1	2-hydroxyethyl acrylate						
	Acute fish toxicity	LC50	4,8 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Algae toxicity	NOEC	1 mg/l	3 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC	3,4 mg/l	2 d	Daphnia magna (Big water flea)		
162881-26-7	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide						
	Acute fish toxicity	LC50 mg/l	0,09	96 h	Brachydanio rerio (zebra-fish)		
	Acute crustacea toxicity	EC50 mg/l	1,175	48 h	Daphnia magna (Big water flea)		

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
57472-68-1	Dipropyleneglycoldiacrylate			
	OECD Guideline 301 A (DOC Die Away Test)	90-100%	28	
	readily biodegradable			
28961-43-5	Ethoxylated trimethylolpropane			
	OECD Guideline 301 B (CO2 Evolution Test)	60%	28	
	readily biodegradable			
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate			
	OECD Guideline 301 F (Manometric Respirometry)	<10	28	
	not readily biodegradable			
42978-66-5	tripropyleneglycoldiacrylate			
	OECD Guideline 301 B (CO2 Evolution Test)	48%	28	
	partly biodegradable			
818-61-1	2-hydroxyethyl acrylate			
		>60	28	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
5888-33-5	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	4,52
28961-43-5	Ethoxylated trimethylolpropane	2,89
128-37-0	2,6-Di-tert-Butyl-p-Kresol	5,1

BCF

CAS No	Chemical name	BCF	Species	Source
5888-33-5	Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	37		

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

There are no data available on the mixture itself.
Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains.
Recycle according to official regulations.

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.
Recycle according to official regulations.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(enthält Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Classification code:

M6

Special Provisions:

274 335 375 601

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

90

Tunnel restriction code:

-

Marine transport (IMDG)**14.1. UN number or ID number:**

UN 3082

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



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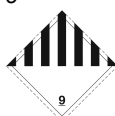
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Special Provisions: 274, 335, 969
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-A, S-F

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



Special Provisions: A97 A158 A197 A215
Limited quantity Passenger: 30 kg G
Passenger LQ: Y964
Excepted quantity: E1
IATA-packing instructions - Passenger: 964
IATA-max. quantity - Passenger: 450 L
IATA-packing instructions - Cargo: 964
IATA-max. quantity - Cargo: 450 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: Isobornyl acrylate ; exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): 0,88 % (9,587 g/l)
Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

National regulatory information

Water hazard class (D): 3 - highly hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,9,15.

Abbreviations and acronyms

ADR - Accord européen relatif transport des marchandises dangereuses par route ATE - Acute Toxicity

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Estimate / Schätzwert akuter Toxizität; BCF - Biokonzentrationsfaktor (Bio-Concentration Factor); CAS - Chemical Abstracts Service; CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures; CMR - Carcinogenität, Mutagenität, Reproduktionstoxizität; ECHA - European Chemicals Agency / Europäische Chemikalienagentur (in Helsinki); EC50 - Effective Concentration 50%; ErC50 - Average specific growth rate; EINECS - European Inventory of Existing Commercial Chemical Substances; DNEL - „Derived No-Effect Level“; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods Code; LC50 - Lethal Concentration 50%; LD50 - Lethal dose 50%; NOAEC/L - No Observed Adverse Effect Concentration / Level; NOEC - No Observed Effect Concentration; OECD - Organization for Economic Cooperation and Development; PBT - Persistent, Bioaccumulative, Toxic (persistent, bioakkumulativ, toxisch); PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation and Authorization of Chemicals; RID - Règlement International concernant le transport de marchandises dangereuses par chemin de fer; SCL - Specific Concentration Level; STOT - Specific Target Organ Toxicity; SVHC - Stoff sehr hoher Besorgnis (Substance of Very High Concern); VOC - Volatile Organic Compounds; WGK - Wassergefährdungsklasse

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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