

Safety Data Sheet

according to UK REACH Regulation

BergoLED Speed-Resin 1L1000-O, Outdoor

Revision date: 02.04.2025

Product code: A1022185

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

BergoLED Speed-Resin 1L1000-O, Outdoor

Product group:	Produkt
UFI:	SPV0-U708-XVHG-QQC3

1.2. Relevant identified uses of the substance or mixture and uses advised against**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
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

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

reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate;
7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate
Dipropyleneglycoldiacrylate
Tricyclodecane dimethanol Diacrylate
ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
trimethoxyvinylsilane; trimethoxy(vinyl)silane
Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide

Signal word: Danger**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.

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Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P391	Collect spillage.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
52658-19-2	reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate			60 - < 65 %
	412-260-6	616-087-00-9	01-2119381661-37	
	Eye Irrit. 2, Skin Sens. 1B, Aquatic Chronic 2; H319 H317 H411			
57472-68-1	Dipropyleneglycoldiacrylate			15 - < 20 %
	260-754-3		01-2119484629-21	
	Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H315 H318 H317			
42594-17-2	Tricyclodecane dimethanol Diacrylate			10 - < 15 %
	255-901-3		01-2150051112-76	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
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 %
	282-810-6		01-2119987994-10	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane			< 1 %
	220-449-8	014-049-00-0	01-2119513215-52	
	Flam. Liq. 3, Acute Tox. 4, Skin Sens. 1B; H226 H332 H317			
162881-26-7	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide			< 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	
52658-19-2	412-260-6	reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazaheptadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazaheptadecane-1,16-diyl-prop-2-enoate	60 - < 65 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
57472-68-1	260-754-3	Dipropylenglycoldiacrylate	15 - < 20 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 3530 mg/kg	
42594-17-2	255-901-3	Tricyclodecane dimethanol Diacrylate	10 - < 15 %
		oral: LD50 = >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 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
2768-02-7	220-449-8	trimethoxyvinylsilane; trimethoxy(vinyl)silane	< 1 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 7120-7326 mg/kg	
162881-26-7	423-340-5	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide	< 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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

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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

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.

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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

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
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	
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	
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane			
Worker DNEL,	inhalation	systemic	4,9 mg/m ³	
Worker DNEL,	dermal	systemic	0,69 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	1,04 mg/m ³	
Consumer DNEL, acute	inhalation	systemic	93,4 mg/m ³	
Consumer DNEL, long-term	oral	systemic	0,3 mg/kg bw/day	
Consumer DNEL, acute	dermal	systemic	26,9 mg/kg bw/day	
Consumer DNEL, long-term	dermal	systemic	0,3 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
52658-19-2	reaction mass of: 7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazaheptadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazaheptadecane-1,16-diyl-prop-2-enoate	
Freshwater		0,0049 mg/l
Marine water		0,0049 mg/l
Freshwater sediment		0,854 mg/kg
Marine sediment		0,0851 mg/kg
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		0,167 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
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
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane	
Freshwater		0,34 mg/l
Marine water		0,034 mg/l
Freshwater sediment		0,27 mg/kg
Micro-organisms in sewage treatment plants (STP)		110 mg/l
Soil		0,046 mg/kg
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

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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:	red
Odour:	characteristic

Test method

Changes in the physical state

Boiling point or initial boiling point and boiling range:	104 °C
Flash point:	100 °C DIN 53213
Auto-ignition temperature:	240 °C
Flow time: (at 20 °C)	90 6 DIN EN ISO 2431
Vapour pressure: (at 20 °C)	0,7 hPa
Density (at 20 °C):	1,108 g/cm ³ DIN 53217

9.2. Other information

Other safety characteristics

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	0,84 %

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Solid content:

99,16 %

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 (NO_x), 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
52658-19-2	reaction mass of: 7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
57472-68-1	Dipropylene glycol diacrylate				
	oral	LD50 3530 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
42594-17-2	Tricyclodecane dimethanol Diacrylate				
	oral	LD50 >2000 mg/kg	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		
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane				
	oral	LD50 7120-7326 mg/kg	Rat		
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
162881-26-7	Phenylbis- (2,4,6-trimethylbenzoyl) phosphine oxide				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (reaction mass of:

7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate;

7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate;

Dipropylene glycol diacrylate; Tricyclodecane dimethanol Diacrylate; ethyl

phenyl(2,4,6-trimethylbenzoyl)phosphinate; trimethoxyvinylsilane; trimethoxy(vinyl)silane; 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

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

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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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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
52658-19-2	reaction mass of: 7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate; 7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-prop-2-enoate					
	Acute fish toxicity	LC50	4,9 mg/l	96 h		OECD 203
	Acute crustacea toxicity	EC50	19 mg/l	48 h		OECD 202
57472-68-1	Dipropylene glycol diacrylate					
	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 mg/l)	1000	0,5 h		
42594-17-2	Tricyclodecane dimethanol Diacrylate					
	Acute fish toxicity	LC50 mg/l	1,65	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50	1,6 mg/l	72 h	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50 mg/l	2,36	48 h	Daphnia magna (Big water flea)	
128-37-0	2,6-Di-tert-Butyl-p-Kresol					
	Acute fish toxicity	LC50 mg/l	>0,57	96 h	Brachydanio rerio (zebra-fish)	
	Acute algae toxicity	ErC50 mg/l	>0,4	72 h		
	Acute crustacea toxicity	EC50 mg/l	>0,48	48 h	Daphnia magna (Big water flea)	
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate					
	Acute fish toxicity	LC50 mg/l	1,89	96 h	Danio rerio	
	Acute algae toxicity	ErC50 mg/l	1,01	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50 mg/l	2,26	48 h	Daphnia magna	
2768-02-7	trimethoxyvinylsilane; trimethoxy(vinyl)silane					
	Acute fish toxicity	LC50	191 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50 mg/l	168,7	48 h	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

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
57472-68-1	Dipropylene glycol diacrylate			
	OECD Guideline 301 A (DOC Die Away Test)	90-100%	28	
	readily biodegradable			
84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate			
	OECD Guideline 301 F (Manometric Respirometry)	<10	28	
	not readily biodegradable			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
128-37-0	2,6-Di-tert-Butyl-p-Kresol	5,1

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

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.
(reaction mass of:
7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-pro
p-2-enoate;
7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazahexadecane-1,16-diyl-pro
p-2-enoate)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9

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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.
(reaction mass of:
7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahehexadecane-1,16-diyl-pro
p-2-enoate;
7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahehexadecane-1,16-diyl-pro
p-2-enoate)
14.3. Transport hazard class(es): 9
14.4. Packing group: III
Hazard label: 9



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.
(reaction mass of:
7,9,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahehexadecane-1,16-diyl-pro
p-2-enoate;
7,7,9-trimethyl-3,14-dioxa-4,13-dioxo-5,12-diazahehexadecane-1,16-diyl-pro
p-2-enoate)
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

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ENVIRONMENTALLY HAZARDOUS: Yes



Danger releasing substance: reaction mass of:
7,9,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazaheptadecane-1,16-diyl-pro
p-2-enoate;
7,7,9-trimethyl-3,14-dioxo-4,13-dioxo-5,12-diazaheptadecane-1,16-diyl-pro
p-2-enoate

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): 0,841 % (9,313 g/l)

Information according to 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

National regulatory information

Water hazard class (D): 2 - obviously 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 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
Aquatic Chronic 2; H411	Calculation method

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Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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.)