

UV Putty Fine

Version number: 1.1

Date of compilation: 2023-10-25

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

1.1 Product identifier

Trade name **UV Putty Fine**

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

Relevant identified uses Putty
Professional use

1.3 Details of the supplier of the safety data sheet

EMM International BV
Bohemenstraat 19
8028 SB Zwolle
Netherlands

Telephone: +31 38 4676600
e-mail: msds@colad.com
Website: www.colad.com

Additional information

Supplier (distributor)						
Country	Name	Street	Postal code/ city	City	Telephone	e-Mail
United Kingdom	Amaric Associates Ltd.	Wingbury Court-yard Business Village	HP22 4LW Aylesbury	Aylesbury	+44(0)7831547 123	Richard@amari-cassociates.co.uk

e-mail (competent person) msds@colad.com

1.4 Emergency telephone number

Emergency information service + 31 38 4676600
This number is only available during the following office hours: Mon-Fri 08:00 - 17:00

Poison centre		
Country	Name	Telephone
United Kingdom	National Poisons Information Service (NPIS)	0344-8920111 (medical professionals only)
United Kingdom	NHS (general public)	non-emergency: 111 or a doctor; emergency: 999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (acc. to GB CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.6	carcinogenicity	2	Carc. 2	H351

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Section	Hazard class	Category	Hazard class and category	Hazard statement
4.1C	hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling (acc. to GB CLP)

- signal word Warning

- pictograms

GHS07, GHS08,
GHS09



- hazard statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H351 Suspected of causing cancer.
- H411 Toxic to aquatic life with long lasting effects.

- precautionary statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.

- hazardous ingredients for labelling

Contains: exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate; 2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate; Hexane-1,6-diyl diacrylate; 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid; (1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate; Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate.

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB ≥ 0.1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0.1%.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Hexanoic acid, 6-[[[[[1,3,3-trimethyl-5-[[[[[6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl]oxy]carbonyl]amino]cyclohexyl]methyl]amino]carbonyl]oxy]-, 2-[(1-oxo-2-propenyl)oxy]ethylester	CAS No 119107-13-0	10 – <25	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		
Hexane-1,6-diyl diacrylate	CAS No 13048-33-4 EC No 235-921-9 Index No 607-109-00-8	< 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Aquatic Acute 1 / H400 Aquatic Chronic 2 / H411		D
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	CAS No 5888-33-5 EC No 227-561-6 Index No 607-756-00-6	< 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1A / H317 STOT SE 3 / H335 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	CAS No 55818-57-0 EC No 500-130-2	< 10	Skin Sens. 1 / H317 Aquatic Chronic 2 / H411		
1H-Azepine-1-propanoic acid, hexahydro-, 2,2-bis[[[(1-oxo-2-propen-1-yl)oxy]methyl]butyl ester	CAS No 73003-78-8 EC No 690-398-8	< 10	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319		
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	CAS No 42978-66-5 EC No 256-032-2 Index No 607-249-00-X	< 2.5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 STOT SE 3 / H335 Aquatic Chronic 2 / H411		
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	CAS No 84434-11-7 EC No 282-810-6	< 2.5	Skin Sens. 1B / H317 Aquatic Chronic 2 / H411		

Safety Data Sheet



acc. to Regulation (EC) No. 1907/2006 (REACH)

Transition document following GB exit from the EU

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	CAS No 15625-89-5 EC No 239-701-3 Index No 607-111-00-9	< 2.5	Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Carc. 2 / H351 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		D
hexamethyleneimine; homopiperidine; perhydroazepine	CAS No 111-49-9 EC No 203-875-9	< 1	Flam. Liq. 3 / H226 Acute Tox. 4 / H302 Acute Tox. 3 / H331 Skin Corr. 1C / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 Aquatic Chronic 3 / H412		

Notes

D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Name of substance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate	CAS No 42978-66-5 EC No 256-032-2	STOT SE 3; H335: C ≥ 10 %	-	-	
hexamethyleneimine; homopiperidine; perhydroazepine	CAS No 111-49-9 EC No 203-875-9	-	-	500 mg/kg 2.77 mg/l/4h	oral inhalation: vapour

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Call a POISON CENTER/doctor.

Following eye contact

Do not rub the eyes. Mechanical stress can cause damage to the cornea. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.

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4.2 Most important symptoms and effects, both acute and delayed

Delayed effects can be expected after short or long-term exposure.
Allergic reactions (such as skin rashes, hives, asthma or anaphylactic shock).
Causes tears.
Conjunctivitis (pink eye).
Localised redness, oedema, pruritis and/or pain.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison centre.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water; Foam; Dry extinguishing powder; ABC-powder;
Co-ordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced.
Nitrogen oxides (NO_x).
Carbon monoxide (CO).
Carbon dioxide (CO₂).
Phosphorus oxides (P_xO_y).
Metal oxides.
Halogenated compounds.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

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6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingsuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

- specific designs for storage rooms or vessels

- storage temperature

Recommended storage temperature: 7 – 25 °C

- packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Notation	Source
GB	kaolin	1332-58-7	WEL		2			r	EH40/2005
GB	talc	14807-96-6	WEL		1			r, no_asb	EH40/2005
GB	silica, amorphous	7631-86-9	WEL		6			i	EH40/2005
GB	silica, amorphous	7631-86-9	WEL		2.4			r	EH40/2005

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Notation

i	inhalable fraction
no_asb	containing no asbestos fibres
r	respirable fraction
STEL	short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA	time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hexane-1,6-diyl diacrylate	13048-33-4	DNEL	24.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hexane-1,6-diyl diacrylate	13048-33-4	DNEL	2.77 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hexane-1,6-diyl diacrylate	13048-33-4	DNEL	7.2 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hexane-1,6-diyl diacrylate	13048-33-4	DNEL	1.66 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hexane-1,6-diyl diacrylate	13048-33-4	DNEL	2.1 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	DNEL	4.9 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	DNEL	1.39 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	DNEL	1.45 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	DNEL	0.83 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	DNEL	0.83 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	DNEL	1.17 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	DNEL	33 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-1,2,1-ethanediyl)] diacrylate	42978-66-5	DNEL	2.35 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	DNEL	1.7 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	DNEL	4.93 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	DNEL	1.4 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	DNEL	0.87 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	DNEL	0.5 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	DNEL	0.5 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	DNEL	17.1 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	DNEL	404 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Hexane-1,6-diyl diacrylate	13048-33-4	PNEC	0.007 mg/l	aquatic organisms	freshwater	short-term (single instance)
Hexane-1,6-diyl diacrylate	13048-33-4	PNEC	0.001 mg/l	aquatic organisms	marine water	short-term (single instance)
Hexane-1,6-diyl diacrylate	13048-33-4	PNEC	2.7 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Hexane-1,6-diyl diacrylate	13048-33-4	PNEC	0.493 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Hexane-1,6-diyl diacrylate	13048-33-4	PNEC	0.049 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Hexane-1,6-diyl diacrylate	13048-33-4	PNEC	0.094 mg/kg	terrestrial organisms	soil	short-term (single instance)
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	PNEC	2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	PNEC	0.145 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	PNEC	0.015 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	PNEC	0.029 mg/kg	terrestrial organisms	soil	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	PNEC	0.025 mg/l	aquatic organisms	freshwater	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	PNEC	0.003 mg/l	aquatic organisms	marine water	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	PNEC	8.96 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	PNEC	0.896 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	PNEC	1.78 mg/kg	terrestrial organisms	soil	short-term (single instance)
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	PNEC	0.005 mg/l	aquatic organisms	freshwater	short-term (single instance)
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	PNEC	10 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	PNEC	0.487 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	PNEC	0.049 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	PNEC	0.095 mg/kg	terrestrial organisms	soil	short-term (single instance)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	PNEC	1.01 µg/l	aquatic organisms	freshwater	short-term (single instance)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	PNEC	0.101 µg/l	aquatic organisms	marine water	short-term (single instance)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	PNEC	0.24 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	PNEC	24 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	PNEC	47.5 µg/kg	terrestrial organisms	soil	short-term (single instance)
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	PNEC	0.87 µg/l	aquatic organisms	freshwater	short-term (single instance)
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	PNEC	0.087 µg/l	aquatic organisms	marine water	short-term (single instance)
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	PNEC	6.25 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	PNEC	0.017 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)

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Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
2,2-bis(acryloyloxy-methyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	PNEC	0.003 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

Hand protection



Wear suitable gloves. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- type of material

PVC: polyvinyl chloride, Nitrile rubber, Butyl rubber, NP: neoprene

- material thickness

Use gloves with a minimum material thickness: ≥ 0,5 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >240 minutes (permeation: level 5).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Colour	grey
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	98.82 °C at 0.71 mbar calculated value, referring to a component of the mixture
Evaporation rate	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	LEL: UEL: not relevant
Flash point	not applicable
Auto-ignition temperature	214 °C (relative self-ignition temperature for solids) calculated value, referring to a component of the mixture
Decomposition temperature	no data available
pH (value)	not applicable
Kinematic viscosity	not relevant
Solubility	not determined

Partition coefficient n-octanol/water (log value)	this information is not available
---	-----------------------------------

Vapour pressure	0.013 hPa at 20 °C calculated value, referring to a component of the mixture
-----------------	--

Density and/or relative density

Density	1.51 g/cm ³
Relative vapour density	information on this property is not available

Particle characteristics	no data available
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9.2 Other information

There is no additional information.

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Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated:

Exothermic polymerisation.

If exposed to light:

Exothermic polymerisation.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

UV-radiation/sunlight.

10.5 Incompatible materials

Acids.
Bases.
Oxidisers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

- acute toxicity of components of the mixture

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
hexamethyleneimine; homopiperidine; perhydroazepine	111-49-9	oral	500 mg/kg
hexamethyleneimine; homopiperidine; perhydroazepine	111-49-9	inhalation: vapour	2.77 mg/l/4h

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Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Hexane-1,6-diyl diacrylate	13048-33-4	oral	LD50	>5,000 mg/kg	rat
Hexane-1,6-diyl diacrylate	13048-33-4	dermal	LD50	3,650 mg/kg	rabbit
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	oral	LD50	5,750 mg/kg	rat
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	dermal	LD50	>3,000 mg/kg	rabbit
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	oral	LD50	>2,000 mg/kg	rat
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	dermal	LD50	>2,000 mg/kg	rabbit
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	oral	LD50	>5,000 mg/kg	rat
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	dermal	LD50	≥2,000 mg/kg	rat
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	oral	LD50	>5,000 mg/kg	rat
hexamethyleneimine; homopiperidine; perhydroazepine	111-49-9	inhalation: vapour	LC50	2.77 mg/l/4h	rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexane-1,6-diyl diacrylate	13048-33-4	LC50	0.38 mg/l	fish	96 h
Hexane-1,6-diyl diacrylate	13048-33-4	EC50	8.3 mg/l	aquatic invertebrates	24 h
Hexane-1,6-diyl diacrylate	13048-33-4	ErC50	2.33 mg/l	algae	72 h
Hexane-1,6-diyl diacrylate	13048-33-4	NOEC	3.7 mg/l	aquatic invertebrates	24 h
Hexane-1,6-diyl diacrylate	13048-33-4	growth rate (Er-Cx) 10%	0.59 mg/l	algae	72 h
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	LC50	0.704 mg/l	fish	96 h
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	ErC50	1.98 mg/l	algae	72 h
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	EC50	0.596 mg/l	algae	72 h
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	NOEC	0.405 mg/l	algae	72 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	LL50	>100 mg/l	fish	96 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	EC50	>16 mg/l	aquatic invertebrates	48 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	EL50	105 mg/l	algae	72 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	ErC50	17 mg/l	algae	72 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	NOELR	≥100 mg/l	aquatic invertebrates	48 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	NOEC	≥16 mg/l	aquatic invertebrates	48 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	LOEC	>16 mg/l	aquatic invertebrates	48 h

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	growth rate (Er-Cx) 10%	4.8 mg/l	algae	72 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	growth (EbCx) 10%	0.86 mg/l	algae	72 h
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	LC50	<10 mg/l	fish	96 h
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	EC50	89 mg/l	aquatic invertebrates	48 h
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	ErC50	65.9 mg/l	algae	72 h
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	NOEC	2.15 mg/l	fish	96 h
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	growth rate (Er-Cx) 10%	6.6 mg/l	algae	72 h
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	LC50	1.89 mg/l	fish	96 h
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	EC50	2.26 mg/l	aquatic invertebrates	48 h
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	ErC50	1.01 mg/l	algae	72 h
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	NOEC	≥1.29 mg/l	fish	96 h
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	growth (EbCx) 10%	1.55 mg/l	aquatic invertebrates	48 h
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	LC50	0.87 mg/l	fish	96 h
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	ErC50	4.86 mg/l	algae	96 h
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	EC50	7.2 mg/l	algae	72 h
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	NOEC	0.89 mg/l	fish	96 h
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	LOEC	1.71 mg/l	fish	96 h
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	growth rate (Er-Cx) 10%	1.9 mg/l	algae	72 h

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Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	growth (EbCx) 10%	0.6 mg/l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Hexane-1,6-diyl diacrylate	13048-33-4	LC50	0.47 mg/l	aquatic invertebrates	21 d
Hexane-1,6-diyl diacrylate	13048-33-4	EC50	0.15 mg/l	aquatic invertebrates	21 d
Hexane-1,6-diyl diacrylate	13048-33-4	NOEC	0.072 mg/l	fish	39 d
Hexane-1,6-diyl diacrylate	13048-33-4	LOEC	0.149 mg/l	fish	39 d
Hexane-1,6-diyl diacrylate	13048-33-4	growth (EbCx) 20%	60 mg/l	microorganisms	30 min
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	EC50	0.524 mg/l	aquatic invertebrates	21 d
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	NOEC	0.092 mg/l	aquatic invertebrates	21 d
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	LOEC	0.277 mg/l	aquatic invertebrates	21 d
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	EC50	>1,000 mg/l	microorganisms	3 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	NOEC	0.25 mg/l	fish	33 d
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	growth (EbCx) 10%	0.43 mg/l	fish	33 d
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	EC50	>1,000 mg/l	microorganisms	180 min
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	growth (EbCx) 20%	>1,000 mg/l	microorganisms	180 min
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	growth (EbCx) 20%	625 mg/l	microorganisms	30 min

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12.2 Persistence and degradability

Degradability of components of the mixture					
Name of substance	CAS No	Process	Degradation rate	Time	Method
Hexane-1,6-diyl diacrylate	13048-33-4	carbon dioxide generation	60 – 70 %	28 d	
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	oxygen depletion	51 %	28 d	
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	carbon dioxide generation	2 %	9 d	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	oxygen depletion	42 %	28 d	
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	carbon dioxide generation	48 %	28 d	
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7	oxygen depletion	<10 %	28 d	
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5	carbon dioxide generation	82 – 90 %	28 d	

12.3 Bioaccumulative potential

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Hexane-1,6-diyl diacrylate	13048-33-4		2.81 (25 °C)	
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	5888-33-5	37	4.52	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0		1.6 – 3.8 (pH value: 6.4, 23 °C)	
(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5		>2.5 – <2.7 (pH value: 6.7, 23 °C)	
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	84434-11-7		2.91 (pH value: 4.4, 25 °C)	
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	15625-89-5		4.35	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain any substances that are assessed to be PBT or vPvB \geq 0.1%.

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

- product

08 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number

ADR/RID UN 3077

IMDG-Code UN 3077

ICAO-TI UN 3077

14.2 UN proper shipping name

ADR/RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

IMDG-Code ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

ICAO-TI Environmentally hazardous substance, solid, n.o.s.

Technical name (Hazardous ingredients) Hexane-1,6-diyl diacrylate, exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

14.3 Transport hazard class(es)

ADR/RID 9

IMDG-Code 9

ICAO-TI 9

14.4 Packing group

ADR/RID III

IMDG-Code III

ICAO-TI III

14.5 Environmental hazards

hazardous to the aquatic environment

Environmentally hazardous substance (aquatic environment) Hexane-1,6-diyl diacrylate, exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

No data available.


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Information for each of the UN Model Regulations


Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) - additional information

Classification code	M7
Danger label(s)	9, fish and tree
	
Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
Emergency Action Code	2Z

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) - additional information

Classification code	M7
Danger label(s)	9, fish and tree
	
Environmental hazards	yes (hazardous to water)
Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
Transport category (TC)	3
Hazard identification No	90

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant	yes (hazardous to the aquatic environment) (Hexane-1,6-diyl diacrylate)
Danger label(s)	9, fish and tree
	
Special provisions (SP)	274, 335, 966, 967, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 kg
EmS	F-A, S-F
Stowage category	A

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International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Environmental hazards yes (hazardous to the aquatic environment)

Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A179, A197, A215

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
E2	environmental hazards (hazardous to the aquatic environment, cat. 2)	200 500	57)

Notation

57) hazardous to the Aquatic Environment in category Chronic 2

Water Framework Directive (WFD)

List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	Organohalogen compounds and substances which may form such compounds in the aquatic environment		a)	
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Organophosphorous compounds		a)	
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	Substances and preparations, or the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine-related functions in or via the aquatic environment		a)	

Legend

A) Indicative list of the main pollutants

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

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National regulations (GB)

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)			
Name	Name acc. to inventory	Conditions of restriction	No
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Hexane-1,6-diyl diacrylate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Hexanoic acid, 6-[[[[[1,3,3-trimethyl-5-[[[[6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl]oxy]carbonyl] amino]cyclohexyl]methyl]amino]carbonyl]oxy]-, 2-[(1-oxo-2-propenyl)oxy]ethylester	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
1H-Azepine-1-propanoic acid, hexahydro-, 2,2-bis[[[(1-oxo-2-propen-1-yl)oxy]methyl]butyl ester	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
2,2-bis(acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
hexamethyleneimine; homopiperidine; perhydroazepine	this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC	R3	3
hexamethyleneimine; homopiperidine; perhydroazepine	flammable / pyrophoric	R40	40

Legend

R3

- Shall not be used in:
 - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
 - tricks and jokes,
 - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
 - can be used as fuel in decorative oil lamps for supply to the general public, and,
 - present an aspiration hazard and are labelled with R65 or H304,
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the British Standard Specification on Decorative oil lamps (BS EN 14059) adopted by the British Standards Institute.
- Without prejudice to the implementation of other legislation relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
 - lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010 'Just a sip of lamp oil'
 - or even sucking the wick of lamps
 - may lead to life-threatening lung damage';
 - grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life-threatening lung damage';
 - lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
- Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to

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Legend

- R40 the Agency.
1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
 - metallic glitter intended mainly for decoration,
 - artificial snow and frost,
 - 'whoopee' cushions,
 - silly string aerosols,
 - imitation excrement,
 - horns for parties,
 - decorative flakes and foams,
 - artificial cobwebs,
 - stink bombs.
 2. Without prejudice to the application of other legislation on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
 - 'For professional users only'.
 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (***).
 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
 - (***) OJ L 147, 9.6.1975, p. 40.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)
1.3	Details of the supplier of the safety data sheet: EMM International BV Bohemenstraat 19 8028 RT Zwolle Netherlands Telephone: +31 38 4676600 e-mail: info@emm.com Website: www.emm.com	Details of the supplier of the safety data sheet: EMM International BV Bohemenstraat 19 8028 SB Zwolle Netherlands Telephone: +31 38 4676600 e-mail: msds@colad.com Website: www.colad.com
1.3	e-mail (competent person): info@emm.com	e-mail (competent person): msds@colad.com
9.1		Evaporation rate: not determined

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)

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Abbr.	Descriptions of used abbreviations
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
Flam. Liq.	Flammable liquid
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer

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Abbr.	Descriptions of used abbreviations
NOEC	No Observed Effect Concentration
NOELR	No Observed Effect Loading Rate
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT SE	Specific target organ toxicity - single exposure
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.

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Code	Text
H351	Suspected of causing cancer.
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.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.