

Safety Data Sheet

according to Regulation (EC) No 1907/2006

MAG Boomer Gel Top

White, Pink

Revision date: 24.02.2021

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

MAG Boomer White, Pink

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**Professional use.
Nail polish and gels**Uses advised against**

Any non-intended use.

1.3. Details of the supplier of the safety data sheetCompany: nailARTS Irina Markova
Address: Cloefstr. 7, 66693 Mettlach, Germany
Telefon: +49 (0) 6861 9087259
E-Mail: info@nailarts-irina-markova.shop
Internet: www.nailarts-irina-markova.shop**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory or skin sensitisation: Skin Sens. 1
Reproductive toxicity: Repr. 2
Hazardous to the aquatic environment: Aquatic Acute 1
Hazardous to the aquatic environment: Aquatic Chronic 1

Hazard Statements:

Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**pentaerythritol tetrakis(3-mercaptopropionate)
2-hydroxyethyl methacrylate
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide 1,2-
ethanediyl diacrylate
Dibutyltin dilaurate**Signal word:** Warning

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Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H410	Very 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/hearing protection.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
	acrylic resin	50 - < 55 %
	Skin Irrit. 2, Eye Irrit. 2; H315 H319	
94108-97-1	2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	20 - < 25 %
	302-434-9	01-2119977121-41
	Eye Irrit. 2, Aquatic Chronic 2; H319 H411	
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)	10 - < 12 %
	231-472-8	
	Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H317 H400 H410	
868-77-9	2-hydroxyethyl methacrylate	7 - < 10 %
	212-782-2	607-124-00-X
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3 - < 5 %
	278-355-8	015-203-00-X
	Repr. 2, Skin Sens. 1B, Aquatic Chronic 2; H361f H317 H411	
2274-11-5	1,2-ethanediyl diacrylate	0.3 - < 0.5 %
	218-886-4	
	Acute Tox. 3, Acute Tox. 3, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1; H311 H301 H315 H318 H317	

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77-58-7	Dibutyltin dilaurate		0.1 - < 0.2 %
	201-039-8	050-030-00-3	
	Muta. 2, Repr. 1B, Eye Irrit. 2, Skin Sens. 1, STOT SE 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H341 H360FD H319 H317 H370 H372 H400 H410		

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
94108-97-1	302-434-9	2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	20 - < 25 %
		oral: LD50 = > 5000 mg/kg	
7575-23-7	231-472-8	pentaerythritol tetrakis(3-mercaptopropionate)	10 - < 12 %
		inhalation: LC50 = [>3,36] mg/l (dusts or mists); oral: LD50 = > 1000 - < 2000 mg/kg M akut; H400: M=10 M chron.; H410: M=10	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	7 - < 10 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
75980-60-8	278-355-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3 - < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
2274-11-5	218-886-4	1,2-ethanediyl diacrylate	0.3 - < 0.5 %
		dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg	
77-58-7	201-039-8	Dibutyltin dilaurate	0.1 - < 0.2 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2071 mg/kg	

Further Information

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

The following substances are unavoidable impurities: Dibutyltin dilaurate

INGREDIENTS / INCI	CAS	EINECS	FDA
ALIPHATIC URETHANE DIACRYLATE	n/a	n/a	A
DITRIMETHYLOLPROPANE TETRAACRYLATE	94108-97-1	302-434-9	C
PENTAERYTHRITYL TETRAACRYLATE	7575-23-7	231-472-8	D
HEMA	868-77-9	212-782-2	D
HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	213-426-9	D
TRIMETHYLBENZOYL DIPHENYLPHOSPHINE OXIDE	75980-60-8	278-355-8	E
XYLENE	1330-20-7	215-535-7	F
PHENOXYETHANOL	122-99-6	204-589-7	F
ETHYLBENZENE	100-41-4	202-849-4	F
TRIETHYLENE GLYCOL DIMETHACRYLATE	109-16-0	203-652-6	F
P-HYDROXYANISOLE	150-76-5	205-769-8	G
May contain: +/-			
CI 77891	13463-67-7	236-675-5	F
CI 15850	5858-81-1	227-497-9	G

A >=50%, B 25 to 49.9999%, C 10 to 24.9999%, D 5 to 9.9999%, E 1 to 4.9999%, F 0.1 to 0.9999%, G <=0.099%

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

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

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

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

Sand. Foam. Carbon dioxide (CO₂). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO₂)

5.3. Advice for firefighters

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

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

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

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Eliminate leaks immediately. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil. If required, notify relevant authorities according to all applicable regulations.

6.3. Methods and material for containment and cleaning up

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

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

Clean contaminated objects and areas thoroughly observing environmental regulations.

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6.4. Reference to other sections Safe handling: see section 7 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Advices on general occupational hygiene: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

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

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Recommended storage temperature: 20°C

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

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Tin compounds, organic, except Cyhexatin (ISO), (as Sn)	-	0.1		TWA (8 h)	WEL
		-	0.2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
94108-97-1	2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl] diacrylate			
	Worker DNEL, long-term	inhalation	systemic	5,88 mg/m ³
	Worker DNEL, long-term	dermal	systemic	1,67 mg/kg bw/day
77-58-7	Dibutyltin dilaurate			
	Worker DNEL, acute	inhalation	systemic	0,059 mg/m ³
	Worker DNEL, acute	dermal	systemic	2,08 mg/kg bw/day

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Consumer DNEL, long-term	inhalation	systemic	0,005 mg/m ³
Consumer DNEL, acute	inhalation	systemic	0,04 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,16 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,003 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,02 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	0,43 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	0,02 mg/m ³

PNEC values

CAS No	Substance	Value
Environmental compartment		
94108-97-1	2-[[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl] diacrylate	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,012 mg/l
Marine water		0 mg/l
Freshwater sediment		0,484 mg/kg
Marine sediment		0,048 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,096 mg/kg
77-58-7	Dibutyltin dilaurate	
Freshwater		0 mg/l
Freshwater (intermittent releases)		0,005 mg/l
Marine water		0 mg/l
Freshwater sediment		0,05 mg/kg
Marine sediment		0,005 mg/kg
Secondary poisoning		0,2 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,041 mg/kg

8.2. Exposure controls



Appropriate engineering controls

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

Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. After work, wash hands and face. Wash contaminated clothing prior to re-use. Street clothing should be stored separately from work clothing.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

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Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

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

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

Skin protection

Suitable protective clothing: Lab apron.

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

Respiratory protection

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

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	light blue	
Odour:	characteristic	
pH-Value:		No information available.
Changes in the physical state		
Melting point:		No information available.
Boiling point or initial boiling point and boiling range:		No information available.
Sublimation point:		No information available.
Softening point:		No information available.
Pour point:		No information available.
Flash point:		No information available.
Sustaining combustion:		No data available
Flammability		
Solid:		Gas:

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Explosive properties

none

No information available.

No information available.

Lower explosion limits:

Upper explosion limits:

Auto-ignition temperature:

No information available.

Self-ignition temperature

No information available.

Solid:

No information available.

Gas:

Decomposition temperature:

No information available.

Oxidizing properties

none

No information available.

No information available.

Vapour pressure:

(at 20 °C)

Vapour pressure:

(at 50 °C)

No information available.

No information available.

Density (at 20 °C):

1,1 g/cm³

Bulk density:

No information available.

Water solubility:

No information available.

Solubility in other solvents

No information available.

Partition coefficient n-octanol/water:

No information available.

Viscosity / dynamic:

No information available.

Viscosity / kinematic:

No information available.

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Flow time:	No information available.
Relative vapour density:	No information available.
Evaporation rate:	No information available.
Solvent separation test:	No information available.
Solvent content:	No information available.

9.2. Other information

Solid content:	No information available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. Do not store at temperatures over: 60°C

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. strong alkalis. Do not mix with peroxid-accelerators or reduction agents. Strong acid

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
94108-97-1	2-[[2,2-bis[[[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate				
	oral	LD50 > 5000 mg/kg	Rat	REACH Dossier	OECD Guideline 401
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)				
	oral	LD50 > 1000 - < 2000 mg/kg	Rat	REACH Dossier	OECD Guideline 423
	inhalation (4 h) aerosol	LC50 > 3,36 mg/l	Rat.	REACH Dossier	OECD 403
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 > 5000 mg/kg	Rabbit.	ECHA Dossier	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				

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	oral	LD50 mg/kg	> 5000	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	ECHA Dossier	OECD Guideline 402
2274-11-5	1,2-ethanediyl diacrylate					
	oral	ATE mg/kg	100			
	dermal	ATE mg/kg	300			
77-58-7	Dibutyltin dilaurate					
	oral	LD50 mg/kg	2071	Rat	Study report (1981)	OECD Guideline 401
	dermal	LD50 mg/kg	> 2000	Rat	Study report (2010)	OECD Guideline 402

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (pentaerythritol tetrakis(3-mercaptopropionate); 2-hydroxyethyl methacrylate; diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide; 1,2-ethanediyl diacrylate; Dibutyltin dilaurate)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility. (diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

pentaerythritol tetrakis(3-mercaptopropionate):

In vitro mutagenicity/genotoxicity: Method: OECD 471 (Ames test). Result / evaluation: negative.; Reproductive

toxicity: Method: OECD 408 Species: Rat. Exposure duration: 90 d. Result: NOAEL= 50 mg/kg bw/day. ;

Developmental toxicity/teratogenicity: Method: OECD 414. Species: Rat. Result: NOEL = 120 mg/kg bw/day

2-hydroxyethyl methacrylate:

In-vitro mutagenicity: Method: OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation

Assay); Result: negative. Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD

Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of

GL 422); Species: Rat; Result: NOAEL >= 1000 mg/kg; Literature information: ECHA Dossier

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide:

In vitro mutagenicity/genotoxicity: Method: OECD 471 (Ames test). Result / evaluation: negative.;

Developmental toxicity/teratogenicity: Method: OECD 414. Species: Rat. Result: NOAEL = 150 mg/kg bw/day

Literature information: ECHA Dossier.

STOT-single exposure

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

STOT-repeated exposure

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

pentaerythritol tetrakis(3-mercaptopropionate): Subchronic oral toxicity: Method: OECD 408 Species: Rat.

Exposure duration: 90 d. Result: NOAEL= 50 mg/kg bw/day.

2-hydroxyethyl methacrylate:

Subchronic oral toxicity: Method: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the

Reproduction / Developmental Toxicity Screening Test); Species: Rat; Results: NOAEL = 30 mg/kg; Literature

information: ECHA Dossier

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide:

Subacute oral toxicity: Method: Japanese Ministry of Health and Welfare (M.H.W.) guidelines 1986 for a

twenty-eight day repeat dose oral toxicity study. Exposure duration: 28 d. Species: Rat. Result / evaluation:

NOAEL = 50 mg/kg bw/day Literature information: ECHA Dossier.

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Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
94108-97-1	2-[[2,2-bis[(1-oxoallyl)oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate					
	Acute fish toxicity	LC50 1,2 mg/l	96 h	Cyprinus carpio	REACH Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 1,3 mg/l	72 h	Pseudokirchneriella subcapitata	REACH Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 > 10 mg/l	48 h	Daphnia magna	REACH Dossier	OECD Guideline 202
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	REACH Dossier	OECD Guideline 209
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)					
	Acute fish toxicity	LC50 0,034 mg/l	96 h	Oncorhynchus mykiss	REACH Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 0,12 mg/l	72 h	Desmodesmus subspicatus	REACH Dossier	OECD 201
	Acute crustacea toxicity	EC50 > 0,35 mg/l	48 h	Daphnia magna	REACH Dossier	OECD Guideline 202
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50 227 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50 836 mg/l	72 h	Selenastrum capricornutum	ECHA Dossier	
	Acute crustacea toxicity	EC50 380 mg/l	48 h	Daphnia magna	ECHA Dossier	
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
	Acute fish toxicity	LC50 1,4 mg/l	96 h	Cyprinus carpio	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 2,01 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA Dossier	OECD Guideline 201
	Acute crustacea toxicity	EC50 3,53 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
77-58-7	Dibutyltin dilaurate					
	Acute fish toxicity	LC50 21,2 mg/l	96 h	Danio rerio	Study report (1998)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 1 mg/l	72 h	Desmodesmus subspicatus	Study report (1999)	OECD Guideline 201
	Acute crustacea toxicity	EC50 1,7 - 3,4 mg/l	48 h	Daphnia magna	Study report (1999)	OECD Guideline 202
	Acute bacteria toxicity	(> 1000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (2010)	OECD Guideline 209

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source

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Evaluation				
94108-97-1	2-[[2,2-bis[[[1-oxoallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate			
	OECD Guideline 301 B	4%	29	REACH Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)			
	OECD Guideline 301 B	26%	28	REACH Dossier
	Not readily biodegradable (according to OECD criteria)			
868-77-9	2-hydroxyethyl methacrylate			
	OECD 301C / ISO 9408 / EWG 92/69 Anhang V, C.4-F	>92%	14	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
	activated sludge	0,1	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			
77-58-7	Dibutyltin dilaurate			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	23%	39	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94108-97-1	2-[[2,2-bis[[[1-oxoallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate	4,14
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)	ca. 3,03
868-77-9	2-hydroxyethyl methacrylate	0,47
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	3,1
77-58-7	Dibutyltin dilaurate	4,44

BCF

CAS No	Chemical name	BCF	Species	Source
7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)	23,7	calculation	Estimation Programs
75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	18 - 22	Cyprinus carpio	ECHA Dossier
77-58-7	Dibutyltin dilaurate	1,49	Carassius carassius	Toxicol. Environ. Ch

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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

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List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging


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

Contaminated packaging


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

SECTION 14: Transport information

Land transport (ADR/RID)

<p><u>14.1.</u></p> <p><u>14.2. UN proper shipping name:</u></p> <p><u>14.3. Transport hazard class(es):</u></p> <p><u>14.4.</u></p> <p>Hazard label:</p> <p>Classification code:</p> <p>Special Provisions:</p> <p>Limited quantity:</p> <p>Excepted quantity:</p> <p>Transport category:</p> <p>Hazard No:</p> <p>Tunnel restriction code:</p>	<p>UN number: UN 3082</p> <p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pentaerythritol tetrakis(3-mercaptopropionate))</p> <p>9</p> <p>Packing group: III</p> <p>9</p> <div style="text-align: center;">  </div> <p>M6</p> <p>274 335 375 601</p> <p>5 L</p> <p>E1</p> <p>3</p> <p>90</p> <p>-</p>
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Inland waterways transport (ADN)

<p><u>14.1.</u></p> <p><u>14.2.</u></p> <p>LIQUID, N.O.S.</p> <p><u>14.3.</u></p> <p><u>14.4.</u></p> <p>Hazard label:</p> <p>Classification code:</p>	<p>UN number: UN 3082</p> <p>UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, (pentaerythritol tetrakis(3-mercaptopropionate))</p> <p>Transport hazard class(es): 9</p> <p>Packing group: III</p> <p>9</p> <div style="text-align: center;">  </div> <p>M6</p>
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Special Provisions: 274 335 375 601
 Limited quantity: 5 L
 Excepted quantity: E1

Marine transport (IMDG)

14.1. **UN number:** UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pentaerythritol tetrakis(3-mercaptopropionate))
14.3. **Transport hazard class(es):** 9
14.4. **Packing group:** III
 Hazard label: 9



Marine pollutant: Yes
 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:** UN 3082
14.2. UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pentaerythritol tetrakis(3-mercaptopropionate))
14.3. Transport hazard class(es): 9
14.4. Packing group: III
 Hazard label: 9



Special Provisions: A97 A158 A197
 Limited quantity Passenger: 30 kg G
 Passenger LQ: Y964
 Excepted quantity: E
 1 964
 IATA-packing instructions - Passenger: 450 L
 IATA-max. quantity - Passenger: 964
 IATA-packing instructions - Cargo: 450 L
 IATA-max. quantity - Cargo:

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:



Danger releasing substance: Yes
 pentaerythritol tetrakis(3-mercaptopropionate)

14.6. Special precautions for user

Safe handling: see section 7

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Personal protection equipment: see section 8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

2010/75/EU (VOC): not determined

2004/42/EC (VOC): not determined

Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

Additional information

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

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

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

3 - highly hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: 2-[[2,2-bis[[[1-oxoallyl]oxy]methyl]butoxy]methyl]-2-ethyl-1,3-propanediyl diacrylate
Dibutyltin dilaurate

SECTION 16: Other information**Changes**

Rev. 1.0; Initial release: 11.12.2018

Rev. 2,0; 28.08.2020, Revision, Changes in chapter: 3,15,16

Rev. 2,1; 24.02.2021, Changes in chapter: 1,3

Abbreviations and acronyms

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

CAS Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

ICAO: International Civil Aviation Organization

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

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
h: hour
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

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

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 2; H361f	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
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 .

Further Information

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

Health hazards: Calculation method.

Environmental hazards: Calculation method.

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

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

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