

Safety Data Sheet

according to Regulation (EC) No 1907/2006

AFO Bonding Gel - P

Print date: 11.03.2016

Product code: 1500050

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

1.1. Product identifier

AFO Bonding Gel - P

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

Use of the substance/mixture

Cosmetic product

Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

Company name:	Wilde Cosmetics GmbH	
Street:	Rheingastr. 19a	
Place:	D-65375 Oestrich-Winkel	
Post-office box:	1220	
	D-65368 Oestrich-Winkel	
Telephone:	+49-6723-6020-0	Telefax: +49-6723-6020-15
e-mail:	beate.kerntopf@wilde-group.com	
Contact person:	Dr. Beate Kerntopf	Telephone: -752

1.4. Emergency telephone number: +49-6723-6020-0 This telephone number is available during office hours only.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Harmful to aquatic life with long lasting effects.

The classification is in compliance with coming legislation and therefore may differ from the safety label on the package.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

2-methylpropenoic acid, methacrylic acid

2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate

HYDROXYPROPYL METHACRYLATE

PENTAERYTHRITYL TRIACRYLATE

Acylophosphine = Ethyl Trimethylbenzoyl Phenylphosphinate

METHYL BENZOYLFORMATE

Signal word: Danger

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Pictograms:



Hazard statements

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands after handling. thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P352	Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to Offer surplus and non-recyclable solutions to a licensed disposal company..

Special labelling of certain mixtures

EUH208	Contains Isocyanates. May produce an allergic reaction. Restricted to professional users.
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2.3. Other hazards

Keep out of the reach of children. Harmful in contact with skin and if swallowed. Causes severe burns. Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Cosmetic product: resinoid
Restricted to professional users.

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
79-41-4	2-methylpropenoic acid, methacrylic acid			10 - 25 %
	201-204-4	607-088-00-5		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H312 H302 H314			
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate			10 - 25 %
	239-701-3	607-111-00-9		
	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317			
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			5 - 10 %
	256-032-2	607-249-00-X		
	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319 H335 H315 H317 H411			
27813-02-1	HYDROXYPROPYL METHACRYLATE			5 - 10 %
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE			1 - 5 %
	629-850-6		01-2119490003-49	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H315 H318 H317 H411			
84434-11-7	Acyolphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			0,1 - 1 %
	282-810-6		01-2119987994-10	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
15206-55-0	METHYL BENZOYLFORMATE			0,1 - 1 %
	239-263-3		01-2120101338-67	
	Skin Sens. 1; H317			

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

Further Information

The classification is in compliance with coming legislation and therefore may differ from the safety label on the package.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Evacuate personnel to safe areas. Take off all contaminated clothing immediately. Consult a physician if necessary. Show this safety data sheet to the doctor in attendance.

If unconscious place in recovery position and seek medical advice.

After inhalation

Move to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.

After contact with skin

In case of contact, immediately flush skin with soap and plenty of water. If skin irritation occurs, seek medical advice/attention. In case of accidental skin contact avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of skin.

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After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

In case of accidental eye contact avoid concurrent exposure to the sun or other sources of UV light which may increase the sensitivity of eye.

After ingestion

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician immediately.

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

No data is available on the product itself.

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

Treat symptomatically. In case of lung irritation, first treatment with dexametason aerosol (spray).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers. Heating or fire can release toxic gas. Use water spray to cool unopened containers.

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

Keep away from sources of ignition - No smoking.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use only explosion-proof equipment.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Use personal protective equipment. Keep away from sources of ignition - No smoking. Avoid breathing vapors, mist or gas. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Ensure adequate ventilation. Use explosion-proof equipment.

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

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7.1. Precautions for safe handling**Advice on safe handling**

Use only with adequate ventilation. Handle and open container with care. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice. Take notice of labels and material safety data sheets for the working chemicals. Refer also to instructions for use.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Keep away from heat. May be ignited by open flame.

Further information on handling

Polymerisation occurs when exposed to white light, ultraviolet light or heat.
Refer also to instructions for use.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in original container. Keep tightly closed in a dry, cool and well-ventilated place. Protect from frost, heat and sunlight. Keep at temperature not exceeding 40°C.

Advice on storage compatibility

Keep locked-up.

7.3. Specific end use(s)

Cosmetic product

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
79-41-4	2-methylpropenoic acid, methacrylic acid			
Worker DNEL, long-term		inhalation	systemic	29,6 mg/m ³
Consumer DNEL, long-term		inhalation	local	6,55 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	6,3 mg/m ³
Worker DNEL, long-term		inhalation	local	88 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,25 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	2,55 mg/kg bw/day
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate			
Worker DNEL, long-term		inhalation	systemic	16,2 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,7 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,39 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,39 mg/kg bw/day
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			
Consumer DNEL, long-term		dermal	systemic	1,66 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	7,24 mg/m ³
Worker DNEL, long-term		dermal	systemic	2,77 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,08 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	24,48 mg/m ³
27813-02-1	HYDROXYPROPYL METHACRYLATE			
Consumer DNEL, long-term		inhalation	systemic	8,8 mg/m ³
Worker DNEL, long-term		inhalation	systemic	14,7 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE			
Worker DNEL, long-term		inhalation	systemic	7,35 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,04 mg/kg bw/day
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			
Worker DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	5,88 mg/m ³
15206-55-0	METHYL BENZOYLFORMATE			
Worker DNEL, long-term		dermal	systemic	3,33 mg/kg bw/day

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Consumer DNEL, long-term	dermal	systemic	1,67 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,67 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
79-41-4	2-methylpropenoic acid, methacrylic acid	
Freshwater		0,82 mg/l
Soil		1,2 mg/kg
Marine water		0,82 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate	
Freshwater		0,00147 mg/l
Marine water		0,000147 mg/l
Micro-organisms in sewage treatment plants (STP)		6,25 mg/l
Freshwater sediment		0,0062 mg/kg
Marine sediment		0,00062 mg/kg
Soil		0,0043 mg/kg
Secondary poisoning		5,6 mg/kg
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	
Marine water		0,0007 mg/l
Soil		0,00243 mg/kg
Freshwater		0,0073 mg/l
Freshwater sediment		0,019 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
27813-02-1	HYDROXYPROPYL METHACRYLATE	
Marine sediment		6,28 mg/kg
Freshwater		0,904 mg/l
Soil		0,727 mg/kg
Marine water		0,904 mg/l
Freshwater sediment		6,28 mg/kg
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE	
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Freshwater sediment		0,032 mg/l
Marine sediment		0,0032 mg/l
Soil		0,0046 mg/l
Marine water		0,00032 mg/l
Freshwater		0,0032 mg/l
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate	
Soil		0,047 mg/kg
Freshwater		0,00101 mg/l
Marine water		0,000101 mg/l
Freshwater sediment		0,24 mg/kg
Marine sediment		0,024 mg/kg
15206-55-0	METHYL BENZOYLFORMATE	

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Freshwater	0,069 mg/l
Marine water	0,007 mg/l
Freshwater sediment	0,47 mg/kg
Marine sediment	0,047 mg/kg
Micro-organisms in sewage treatment plants (STP)	39 mg/l
Soil	0,027 mg/kg

Additional advice on limit values

No data is available on the product itself.

8.2. Exposure controls

Appropriate engineering controls

Information about special precautions needed for bulk handling is available on request. Handle in accordance with good industrial hygiene and safety practice. To avoid risks to man and the environment, comply with the instructions for use.

Protective and hygiene measures

Provide sufficient air exchange and/or exhaust in work rooms. Handle and open container with care. Keep away from food, drink and animal feedingstuffs. Avoid contact with skin, eyes and clothing. Take off all contaminated clothing immediately. Wash hands before breaks and at the end of workday.

Eye/face protection

Tightly fitting safety goggles

Hand protection

Use protective skin cream before handling the product.

Nitrile rubber/Neoprene-Wear protective gloves.

Break through time: ≥ 1 h

Glove thickness: 0,5 mm

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Replace when worn.

Skin protection

Protective suit: Long sleeved clothing.

Respiratory protection

Use only with adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment.

Environmental exposure controls

The product should not be allowed to enter drains, water courses or the soil. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: viscous liquid

Colour: pigmented

Odour: characteristic

Test method

Changes in the physical state

Initial boiling point and boiling range: >120 °C

Flash point: 67 °C

Lower explosion limits: 1,6 vol. %

Upper explosion limits: 8,1 vol. %

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Ignition temperature:	214 °C
Vapour pressure: (at 20 °C)	0,97 hPa
Vapour pressure: (at 50 °C)	< 0,01 hPa
Density:	1,08 g/cm ³
Water solubility:	insoluble
Solubility in other solvents miscible with most organic solvents: Acetone, Alcohol	
Solvent content:	13,35 %

SECTION 10: Stability and reactivity**10.1. Reactivity**

No data is available on the product itself.

10.2. Chemical stability

Keep containers tightly closed in a cool, well-ventilated place.

10.3. Possibility of hazardous reactions

Polymerization can occur.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight. Exposure to light.

Heat, flames and sparks.

Polymerization can occur.

Do not smoke.

10.5. Incompatible materials

Strong oxidizing agents, Strong acids and strong bases, Peroxides

10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.

Oxidizing and spontaneously flammable products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data is available on the product itself.

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Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
79-41-4	2-methylpropenoic acid, methacrylic acid			
	oral	LD50 1320 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 > 500 mg/kg	rabbit	
	inhalative (4 h) vapour	LC50 7,1 mg/l	rat	OECD Test Guideline 403
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate			
	oral	LD50 >5000 mg/kg	rat	
	dermal	LD50 5170 mg/kg	rabbit	
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			
	oral	LD50 6800 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >2000 mg/kg	rabbit	OECD Test Guideline 402
27813-02-1	HYDROXYPROPYL METHACRYLATE			
	oral	LD50 >2000 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >5000 mg/kg	rabbit	
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE			
	oral	LD50 540 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >2000 mg/kg	rabbit	OECD Test Guideline 402
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			
	oral	LD50 >5000 mg/kg	rat	
	dermal	LD50 >2000 mg/kg	rat	
15206-55-0	METHYL BENZOYLFORMATE			
	oral	LD50 >6800 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >2000 mg/kg	rat	OECD Test Guideline 402

Specific effects in experiment on an animal

No data is available on the product itself.

Practical experience

Observations relevant to classification

Health injuries are not known or expected under normal use.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

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CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
79-41-4	2-methylpropenoic acid, methacrylic acid				
	Acute fish toxicity	LC50 85 mg/l	96 h	Oncorhynchus mykiss (rainbow trout)	
	Acute algae toxicity	ErC50 45 mg/l	72 h	Selenastrum capricornutum (green algae)	OECD Test Guideline 201
	Acute crustacea toxicity	EC50 >130 mg/l	48 h	Daphnia magna (Water flea)	
	Fish toxicity	NOEC 10 mg/l	35 d	Brachydanio rerio (zebra fish)	
	Crustacea toxicity	NOEC >53 mg/l	21 d	Daphnia magna (Water flea)	
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate				
	Acute fish toxicity	LC50 1,47 mg/l	96 h	Leuciscus idus (Golden orfe)	
	Acute algae toxicity	ErC50 4,859 mg/l	96 h	Scenedesmus capricornutum (fresh water algae)	
	Acute crustacea toxicity	EC50 19,9 mg/l	48 h	Daphnia magna (Water flea)	
	Fish toxicity	NOEC 1 mg/l	4 d	Leuciscus idus (Golden orfe)	
42978-66-5	(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate				
	Acute fish toxicity	LC50 10 mg/l	96 h	Leuciscus idus (Golden orfe)	DIN 38412
	Acute algae toxicity	ErC50 65,9 mg/l	72 h	Scenedesmus quadricauda (Green algae)	
	Acute crustacea toxicity	EC50 89 mg/l	48 h	Daphnia magna (Water flea)	
	Acute bacteria toxicity	(>1000 mg/l)	0,5 h		
27813-02-1	HYDROXYPROPYL METHACRYLATE				
	Acute fish toxicity	LC50 85 mg/l	96 h	Oncorhynchus mykiss (rainbow trout)	
	Acute algae toxicity	ErC50 >97,2 mg/l	72 h		OECD Test Guideline 201
	Acute crustacea toxicity	EC50 >143 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202
	Crustacea toxicity	NOEC 45,2 mg/l	21 d	Daphnia magna (Water flea)	
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE				
	Acute fish toxicity	LC50 3,2 mg/l	96 h	Cyprinus carpio (Carp)	OECD Test Guideline 203
	Acute algae toxicity	ErC50 12 mg/l	96 h	Selenastrum capricornutum (green algae)	OECD Test Guideline 201
	Acute crustacea toxicity	EC50 13 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202
	Fish toxicity	NOEC 2,2 mg/l	4 d	Cyprinus carpio (Carp)	OECD Test Guideline 203
	Algea toxicity	NOEC 0,31 mg/l	4 d	Selenastrum capricornutum (green algae)	OECD Test Guideline 201

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	Acute bacteria toxicity	(>100 mg/l)	3 h		
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate				
	Acute fish toxicity	LC50 1,89 mg/l	96 h	Brachydanio rerio (zebra fish)	OECD Test Guideline 203
	Acute algae toxicity	ErC50 2,75 mg/l	72 h	Selenastrum capricornutum (green algae)	OECD Test Guideline 201
	Acute crustacea toxicity	EC50 10-100 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202
	Fish toxicity	NOEC >=1,29 mg/l	4 d	Brachydanio rerio (zebra fish)	
	Acute bacteria toxicity	(>1000 mg/l)	3 h		
15206-55-0	METHYL BENZOYLFORMATE				
	Acute fish toxicity	LC50 >54,6 mg/l	96 h	Brachydanio rerio (zebra fish)	
	Acute algae toxicity	ErC50 68,6 mg/l	72 h	Selenastrum capricornutum (green algae)	
	Acute crustacea toxicity	EC50 >39,6 mg/l	48 h	Daphnia magna (Water flea)	
	Crustacea toxicity	NOEC >39,6 mg/l	2 d	Daphnia magna (Water flea)	
	Acute bacteria toxicity	(>1000 mg/l)	3 h		

12.2. Persistence and degradability

No data is available on the product itself.

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
79-41-4	2-methylpropenoic acid, methacrylic acid				
			86%	28	
	Readily biodegradable.				
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate				
	Degradation		66%	10	
	Readily biodegradable.				
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate				
			48%	28	
	Not readily biodegradable.				
27813-02-1	HYDROXYPROPYL METHACRYLATE				
			81%	28	
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate				
			<10%	28	
	Not readily biodegradable.				
15206-55-0	METHYL BENZOYLFORMATE				
	Degradation		82%	10	
	Readily biodegradable.				

12.3. Bioaccumulative potential

No data is available on the product itself.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate	>3,3
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	2
27813-02-1	HYDROXYPROPYL METHACRYLATE	0,97
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE	1,45
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate	2,91
15206-55-0	METHYL BENZOYLFORMATE	1,9

BCF

CAS No	Chemical name	BCF	Species	Source
27813-02-1	HYDROXYPROPYL METHACRYLATE	3,2		
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE	3,18-15		

12.4. Mobility in soil

No data is available on the product itself.

12.5. Results of PBT and vPvB assessment

No data is available on the product itself.

12.6. Other adverse effects

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of contents/container in accordance with local regulation.

Waste disposal number of waste from residues/unused products

080199 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; wastes not otherwise specified

Waste disposal number of used product

080199 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; wastes not otherwise specified

Waste disposal number of contaminated packaging

080199 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; wastes not otherwise specified

Contaminated packaging

Dispose of contents/container in accordance with local regulation.

Solidify unexposed surplus and dispose of together with processed material as cured plastic waste.

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number:** UN 1760
- 14.2. UN proper shipping name:** CORROSIVE LIQUID, N.O.S.
- 14.3. Transport hazard class(es):** 8

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14.4. Packing group:

III

Hazard label:

8



Classification code:

C9

Special Provisions:

274

Limited quantity:

5 L

Excepted quantity:

E1

Transport category:

3

Hazard No:

80

Tunnel restriction code:

E

Inland waterways transport (ADN)**14.1. UN number:**

UN 1760

14.2. UN proper shipping name:

CORROSIVE LIQUID, N.O.S.

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Classification code:

C9

Special Provisions:

274

Limited quantity:

5 L

Excepted quantity:

E1

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

UN 1760

14.2. UN proper shipping name:

CORROSIVE LIQUID, N.O.S.

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Special Provisions:

223, 274

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-B

Air transport (ICAO)**14.1. UN number:**

UN 1760

14.2. UN proper shipping name:

CORROSIVE LIQUID, N.O.S.

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



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Special Provisions:	A3 A803	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y841	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:		852
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		856
IATA-max. quantity - Cargo:		60 L
Danger releasing substance:	No data is available on the product itself.	

14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice. To avoid risks to man and the environment, comply with the instructions for use.

SECTION 15: Regulatory information

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

EU regulatory information

2010/75/EU (VOC):	0,004 % (0,042 g/l)
2004/42/EC (VOC):	7,25 % (78,299 g/l)
Subcategory according to Directive 2004/42/EC:	Special finishes - All types, VOC limit value: 840 g/l

Additional information

The classification is in compliance with coming legislation and therefore may differ from the safety label on the package.

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Isocyanates. May produce an allergic reaction.

Further Information

All data refer to the product upon delivery

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

In case of emergency call CHEMTREC 1-800-424-9300.

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