

Safety Data Sheet

according to UK REACH Regulation

AFO Nail Foundation

Revision date: 04.02.2022

Product code: 1500049

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

AFO Nail Foundation

Further trade names

21339, 75879Y, 1500049, 77351Y

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

Cosmetics, personal care products

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****GB CLP Regulation**

Hazard categories:

Flammable liquid: Flam. Liq. 2

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

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

The Product is subject to the German Cosmetics Ordinance.

2.2. Label elements**GB CLP Regulation**

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Hazard components for labelling

butanone; ethyl methyl ketone
 HEMA-PHOSPHATE
 PENTAERYTHRITYL TRIACRYLATE
 methacrylic acid; 2-methylpropenoic acid
 2-hydroxyethyl methacrylate
 ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE

Signal word: Danger

Pictograms:



Hazard statements

H225 Highly flammable liquid and vapour.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 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/hearing protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of Water and soap.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 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.
 P370+P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. to extinguish.
 P233 Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container to Offer surplus and non-recyclable solutions to a licensed disposal company..

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Special labelling of certain mixtures

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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

Cosmetics, personal care products: resinoid
Restricted to professional users.

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
78-93-3	butanone; ethyl methyl ketone			50-100 %
	201-159-0	606-002-00-3		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
1187441-10-6	HEMA-PHOSPHATE			5-10 %
	810-703-1		01-2120140608-57	
	Met. Corr. 1, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1B; H290 H314 H318 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			
79-41-4	methacrylic acid; 2-methylpropenoic acid			1-5 %
	201-204-4	607-088-00-5		
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A; H312 H302 H314			
868-77-9	2-hydroxyethyl methacrylate			0,1-1 %
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H315 H319 H317			
84434-11-7	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE			0,1-1 %
	282-810-6		01-2119987994-10	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			

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

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
78-93-3	201-159-0	butanone; ethyl methyl ketone	50-100 %
		oral: LD50 = 2054 mg/kg	
1187441-10-6	810-703-1	HEMA-PHOSPHATE	5-10 %
		oral: LD50 = >2000 mg/kg	
1245638-61-2	629-850-6	PENTAERYTHRITYL TRIACRYLATE	1-5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 540 mg/kg	
79-41-4	201-204-4	methacrylic acid; 2-methylpropenoic acid	1-5 %
		inhalation: LC50 = 7,1 mg/l (vapours); dermal: LD50 = >500 mg/kg; oral: LD50 = 1320 mg/kg STOT SE 3; H335: >= 1 - 100	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	0,1-1 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 5564 mg/kg	
84434-11-7	282-810-6	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	0,1-1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	

Further Information

The Product is subject to the German Cosmetics Ordinance.

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.

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.

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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

General advice

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

Other information

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

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.

Advice on general occupational hygiene

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.

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

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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.

Hints on joint storage

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
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
78-93-3	butanone; ethyl methyl ketone			
Worker DNEL, long-term		inhalation	systemic	600 mg/m ³
Worker DNEL, long-term		dermal	systemic	1161 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	106 mg/m ³
Consumer DNEL, long-term		dermal	systemic	412 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	31 mg/kg bw/day
1187441-10-6	HEMA-PHOSPHATE			
Worker DNEL, long-term		inhalation	systemic	7,05 mg/m ³
Worker DNEL, long-term		dermal	systemic	1 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	3,53 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day
79-41-4	methacrylic acid; 2-methylpropenoic acid			
Worker DNEL, long-term		inhalation	systemic	29,6 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		inhalation	systemic	6,3 mg/m ³
Consumer DNEL, long-term		inhalation	local	6,55 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2,55 mg/kg bw/day
868-77-9	2-hydroxyethyl methacrylate			
Worker DNEL, long-term		inhalation	systemic	4,9 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,83 mg/kg bw/day
84434-11-7	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE			
Worker DNEL, long-term		inhalation	systemic	4,93 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,87 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,5 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
78-93-3	butanone; ethyl methyl ketone	
Freshwater		55,8 mg/l
Freshwater (intermittent releases)		55,8 mg/l
Marine water		55,8 mg/l
Freshwater sediment		284,74 mg/kg
Marine sediment		284,7 mg/kg
Secondary poisoning		1000 mg/kg
Micro-organisms in sewage treatment plants (STP)		709 mg/l
Soil		22,5 mg/kg
1187441-10-6	HEMA-PHOSPHATE	
Freshwater		0,165 mg/l
Freshwater (intermittent releases)		1,65 mg/l
Marine water		0,0165 mg/l
Marine water (intermittent releases)		1,65 mg/l
Freshwater sediment		2,8 mg/kg
Marine sediment		0,28 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,4 mg/l
Soil		0,46 mg/kg
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE	
Freshwater		0,0032 mg/l
Freshwater (intermittent releases)		0,032 mg/l
Marine water		0,00032 mg/l
Freshwater sediment		0,032 mg/l
Marine sediment		0,0032 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,0046 mg/l
79-41-4	methacrylic acid; 2-methylpropenoic acid	
Freshwater		0,82 mg/l
Freshwater (intermittent releases)		0,82 mg/l
Marine water		0,82 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,2 mg/kg
868-77-9	2-hydroxyethyl methacrylate	
Freshwater		0,482 mg/l
Freshwater (intermittent releases)		1 mg/l
Marine water		0,482 mg/l
Marine water (intermittent releases)		1 mg/l
Freshwater sediment		3,79 mg/kg
Marine sediment		3,79 mg/kg

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Micro-organisms in sewage treatment plants (STP)	10 mg/l
Soil	0,476 mg/kg
84434-11-7	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE
Freshwater	0,00101 mg/l
Freshwater (intermittent releases)	0,0101 mg/l
Marine water	0,000101 mg/l
Marine water (intermittent releases)	0,00101 mg/l
Freshwater sediment	0,24 mg/kg
Marine sediment	0,024 mg/kg
Soil	0,047 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.

Individual protection measures, such as personal protective equipment**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:	clear, colourless
Odour:	characteristic

Changes in the physical state

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Boiling point or initial boiling point and boiling range:	79,6 °C
Flash point:	-9 °C
Auto-ignition temperature:	340 °C
Water solubility:	insoluble
Solubility in other solvents miscible with most organic solvents: Acetone, Alcohol	
Vapour pressure: (at 20 °C)	126 hPa
Density (at 20 °C):	0,85 g/cm ³

9.2. Other information

Other safety characteristics

Solvent content: 84,10 %

Further Information

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 hazard classes as defined in GB CLP Regulation

Toxicokinetics, metabolism and distribution

No data is available on the product itself.

Acute toxicity

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

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
78-93-3	butanone; ethyl methyl ketone				
	oral	LD50 2054 mg/kg	Rat		OECD 423
1187441-10-6	HEMA-PHOSPHATE				
	oral	LD50 >2000 mg/kg	Rat		OECD 423
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
79-41-4	methacrylic acid; 2-methylpropenoic acid				
	oral	LD50 1320 mg/kg	Rat		OECD 401
	dermal	LD50 >500 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 7,1 mg/l	Rat		OECD 403
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50 5564 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
84434-11-7	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE				
	oral	LD50 >5000 mg/kg	rat		OECD 401
	dermal	LD50 >2000 mg/kg	rat		OECD 402

Irritation and corrosivity

Causes severe skin burns and eye damage.

Causes serious eye damage.

Sensitising effects

May cause an allergic skin reaction. (HEMA-PHOSPHATE; PENTAERYTHRITYL TRIACRYLATE; 2-hydroxyethyl methacrylate; ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (methacrylic acid; 2-methylpropenoic acid)

May cause drowsiness or dizziness. (butanone; ethyl methyl ketone)

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No data is available on the product itself.

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Practical experience

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	Method
78-93-3	butanone; ethyl methyl ketone					
	Acute fish toxicity	LC50 2993 mg/l	96 h	Pimephales promelas (fathead minnow)		OECD 203
	Acute algae toxicity	ErC50 2029 mg/l	96 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 308 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Fish toxicity	NOEC 1170 mg/l	4 d	Pimephales promelas (fathead minnow)		OECD 203
	Crustacea toxicity	NOEC 68 mg/l	2 d	Daphnia magna (Big water flea)		OECD 202
	Acute bacteria toxicity	(1150 mg/l)		Pseudomonas putida		DIN 38412 / part 8
1187441-10-6	HEMA-PHOSPHATE					
	Acute fish toxicity	LC50 100 mg/l	96 h	Cyprinus carpio (Common Carp)		OECD Test Guideline 203
	Acute algae toxicity	ErC50 165 mg/l	72 h	Selenastrum capricornutum (green algae)		OECD Test Guideline 201
	Acute crustacea toxicity	EC50 100 mg/l	48 h	Daphnia magna (Big water flea)		OECD Test Guideline 202
	Fish toxicity	NOEC 100 mg/l	4 d	Cyprinus carpio (Common Carp)		OECD Test Guideline 203
	Algae toxicity	NOEC 49 mg/l	3 d	Selenastrum capricornutum (green algae)		OECD Test Guideline 201
	Crustacea toxicity	NOEC 100 mg/l	2 d	Daphnia magna (Big water flea)		OECD Test Guideline 202
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 33 mg/l	96 h	Pseudokirchneriella subcapitata		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
	Algae toxicity	NOEC 10 mg/l	4 d	Pseudokirchneriella subcapitata		OECD Test Guideline 201
	Crustacea toxicity	NOEC 10,3 mg/l	2 d	Daphnia magna (Water flea)		OECD Test Guideline 202
	Acute bacteria toxicity	(>100 mg/l)	3 h	Activated sludge		OECD 209
79-41-4	methacrylic acid; 2-methylpropenoic acid					
	Acute fish toxicity	LC50 85 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 >20 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 >130 mg/l	48 h	Daphnia magna (Big water flea)		

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	Fish toxicity	NOEC	10 mg/l	35 d	Danio rerio (zebrafish)		OECD 210
	Algae toxicity	NOEC	8,2 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC	53 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
	Acute bacteria toxicity	(270 mg/l)			Pseudomonas putida		DIN 38412 / part 8
868-77-9	2-hydroxyethyl methacrylate						
	Acute fish toxicity	LC50	100 mg/l	96 h	Oryzias latipes (Ricefish)		OECD 203
	Acute algae toxicity	ErC50	836 mg/l	72 h	Pseudokirchneriella subcapitata		OECD Test Guideline 201
	Acute crustacea toxicity	EC50	380 mg/l	48 h	Daphnia magna (Water flea)		OECD Test Guideline 202
	Algae toxicity	NOEC	400 mg/l	3 d	Pseudokirchneriella subcapitata		OECD Test Guideline 201
	Crustacea toxicity	NOEC	24,1 mg/l	21 d	Daphnia magna (Water flea)		OECD 211
	Acute bacteria toxicity	(8560 mg/l)		3 h			
84434-11-7	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE						
	Acute fish toxicity	LC50 mg/l	1,89	96 h	Brachydanio rerio (zebra fish)		OECD Test Guideline 203
	Acute algae toxicity	ErC50 mg/l	1,01	72 h	Desmodesmus subspicatus		OECD Test Guideline 201
	Acute crustacea toxicity	EC50 mg/l	2,26	48 h	Daphnia magna (Water flea)		OECD Test Guideline 202
	Fish toxicity	NOEC mg/l	>=1,29	4 d	Brachydanio rerio (zebra fish)		OECD Test Guideline 203
	Acute bacteria toxicity	(>1000 mg/l)		3 h	Activated sludge		OECD 209

12.2. Persistence and degradability

No data is available on the product itself.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
78-93-3	butanone; ethyl methyl ketone			
	OECD 301D/ EEC 92/69/V, C.4-E	98%	28	
	Readily biodegradable.			
1187441-10-6	HEMA-PHOSPHATE			
	OECD 301D/ EEC 92/69/V, C.4-E	71%	28	
	Readily biodegradable			
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE			
	OECD 301B	6-14%	28	
	Not readily biodegradable.			
79-41-4	methacrylic acid; 2-methylpropenoic acid			
	OECD 301D	86%	28	
	Readily biodegradable.			
868-77-9	2-hydroxyethyl methacrylate			
	OECD 301C	92-100%	14	
	Readily biodegradable.			
84434-11-7	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE			
	OECD 301F	<10%	28	
	Not readily biodegradable.			

12.3. Bioaccumulative potential

No data is available on the product itself.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
78-93-3	butanone; ethyl methyl ketone	0,3
1187441-10-6	HEMA-PHOSPHATE	3
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE	3,11
79-41-4	methacrylic acid; 2-methylpropenoic acid	0,93
868-77-9	2-hydroxyethyl methacrylate	0,42
84434-11-7	ETHYL TRIMETHYLBENZOYL PHENYLPHOSPHINATE	2,91

BCF

CAS No	Chemical name	BCF	Species	Source
1245638-61-2	PENTAERYTHRITYL TRIACRYLATE	3,18-15		
868-77-9	2-hydroxyethyl methacrylate	1,34-1,54		

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.

12.7. 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

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Disposal recommendations

Dispose of contents/container in accordance with local regulation.

List of Wastes Code - 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

List of Wastes Code - 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

List of Wastes Code - 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 or ID number: UN 3469
14.2. UN proper shipping name: PAINT, FLAMMABLE, CORROSIVE
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3+8



Classification code: FC
 Special Provisions: 163 367
 Limited quantity: 1 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 338
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3469
14.2. UN proper shipping name: PAINT, FLAMMABLE, CORROSIVE
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3+8



Classification code: FC
 Special Provisions: 163 367

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Limited quantity: 1 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 3469
14.2. UN proper shipping name: PAINT, FLAMMABLE, CORROSIVE
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3+8



Special Provisions: 163, 367
 Limited quantity: 1 L
 Excepted quantity: E2
 EmS: F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3469
14.2. UN proper shipping name: PAINT, FLAMMABLE, CORROSIVE
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3+8



Special Provisions: A3 A72 A192 A803
 Limited quantity Passenger: 0.5 L
 Passenger LQ: Y340
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 352
 IATA-max. quantity - Passenger: 1 L
 IATA-packing instructions - Cargo: 363
 IATA-max. quantity - Cargo: 5 L

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**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2010/75/EU (VOC): 84,415 % (717,528 g/l)

2004/42/EC (VOC): 84,415 % (717,528 g/l)

Subcategory according to Directive 2004/42/EC: Special finishes - All types, VOC limit value: 840 g/l

2004/42/EC:

Additional information

Other labelling like: Kosmetikverordnung

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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.

SECTION 16: Other information**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
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.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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.

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