

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 1 of 17

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

1.1. Product identifier

Natural Nail boost gel with Keratin - 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:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

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

HYDROXYPROPYL METHACRYLATE

2-hydroxyethyl methacrylate

DIPENTAERYTHRITYL HEXAACRYLATE

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

Pentaerythritol Tetrakis (3-Mercaptopropionate)

Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate

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

Signal word: Warning

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 2 of 17

Pictograms:



Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261	Avoid breathing 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.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to Offer surplus and non-recyclable solutions to a licensed disposal company..

Special labelling of certain mixtures

EUH204	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. Irritating to eyes 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 3 of 17

Chemical characterization

Components / INCI:

Urethane Acrylates

Hydroxypropyl Methacrylate

HEMA

Bis Phosphate

Dipentaerythritol Hexaacrylate

Ethoxylated Polypropylene Glycol Dimethacrylate

Trimethylolpropane Trimethacrylate

HEMA Acetoacetate

Trimethylolpropane Triacrylate

Hydroxycyclohexyl Phenyl Ketone

Pentaerythritol Tetrakis(3-Mercaptopropionate)

Ethyl Trimethylbenzoyl Phenylphosphinate

Tripropylene Glycol Diacrylate

Keratin

p-Hydroxyanisole

CI 60725

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 4 of 17

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
27813-02-1	HYDROXYPROPYL METHACRYLATE			10 - 25 %
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
868-77-9	2-hydroxyethyl methacrylate			10 - 25 %
	212-782-2	607-124-00-X		
	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317			
32435-46-4	BIS PHOSPHATE (=Bis-(2-Methacryloyloxy) Ethyl Phosphate)			5 - 10 %
	251-040-2			
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE			5 - 10 %
	800-838-4		01-2119980666-22	
	Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 3; H319 H317 H412			
122985-55-1	Ethoxylated Polypropylene Glycol Dimethacrylate			5 - 10 %
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335			
3290-92-4	TRIMETHYLOLPROPANE TRIMETHACRYLATE			5 - 10 %
	221-950-4		01-2119542176-41	
	Aquatic Chronic 2; H411			
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate			1 - 5 %
	239-701-3	607-111-00-9		
	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317			
7575-23-7	Pentaerythritol Tetrakis (3-Mercaptopropionate)			0,1 - 1 %
	231-472-8		01-2119486981-23	
	Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 1; H302 H317 H410			
84434-11-7	Acylophosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			0,1 - 1 %
	282-810-6		01-2119987994-10	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate			0,1 - 1 %
	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			

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 5 of 17

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.

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.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

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. 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).

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 6 of 17

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.

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

not required

7.3. Specific end use(s)

Cosmetic product

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 7 of 17

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
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
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		dermal	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m ³
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE			
Worker DNEL, long-term		inhalation	systemic	1,76 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,5 mg/kg bw/day
21282-97-3	HEMA ACETOACETATE			
Worker DNEL, acute		inhalation	systemic	700 mg/m ³
Worker DNEL, long-term		inhalation	systemic	35 mg/m ³
Worker DNEL, long-term		inhalation	local	35 mg/m ³
Worker DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	100 mg/kg bw/day
Worker DNEL, acute		inhalation	local	700 mg/m ³
Worker DNEL, long-term		dermal	local	0,125 mg/cm ²
Worker DNEL, acute		dermal	local	2,5 mg/cm ²
Consumer DNEL, long-term		inhalation	systemic	17,5 mg/m ³
Consumer DNEL, long-term		dermal	local	0,0625 mg/cm ²
Consumer DNEL, acute		dermal	local	1,25 mg/cm ²
Consumer DNEL, acute		inhalation	local	350 mg/m ³
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	50 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	50 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	350 mg/m ³
Consumer DNEL, long-term		inhalation	local	17,5 mg/m ³
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 8 of 17

Worker DNEL, long-term	dermal	systemic	1,39 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	1,39 mg/kg bw/day
7575-23-7 Pentaerythritol Tetrakis (3-Mercaptopropionate)			
Worker DNEL, long-term	inhalation	local	40,13 mg/m ³
Worker DNEL, long-term	dermal	systemic	3,4 mg/kg bw/day
Worker DNEL, acute	inhalation	local	40,13 mg/m ³
Worker DNEL, long-term	inhalation	systemic	2,39 mg/m ³
Consumer DNEL, acute	inhalation	local	20,07 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	0,59 mg/m ³
Consumer DNEL, long-term	dermal	systemic	1,7 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	0,17 mg/kg bw/day
Consumer DNEL, long-term	inhalation	local	20,07 mg/m ³
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
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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 9 of 17

PNEC values

CAS No	Substance	
Environmental compartment		Value
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
868-77-9	2-hydroxyethyl methacrylate	
Marine water		0,482 mg/l
Soil		0,476 mg/kg
Marine sediment		3,79 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Freshwater		0,482 mg/l
Freshwater sediment		3,79 mg/kg
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE	
Freshwater		0,013 mg/l
Marine water		0,0013 mg/l
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,55 mg/kg
Freshwater sediment		2,8 mg/kg
Marine sediment		0,28 mg/kg
3290-92-4	TRIMETHYLOLPROPANE TRIMETHACRYLATE	
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Freshwater sediment		0,4951 mg/kg
Marine sediment		0,04951 mg/kg
Soil		0,0974 mg/kg
21282-97-3	HEMA ACETOACETATE	
Freshwater sediment		0,462 mg/kg
Marine sediment		0,0462 mg/kg
Marine water		0,00692 mg/l
Freshwater		0,0692 mg/l
Micro-organisms in sewage treatment plants (STP)		32 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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 10 of 17

7575-23-7	Pentaerythritol Tetrakis (3-Mercaptopropionate)	
	Micro-organisms in sewage treatment plants (STP)	2,39 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
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

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.

Suitable material: 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 11 of 17

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	viscous liquid
Colour:	clear, light blue
Odour:	characteristic

Test method

Changes in the physical state

Initial boiling point and boiling range:	>200 °C
Flash point:	>100 °C
Ignition temperature:	318 °C
Vapour pressure: (at 20 °C)	0,11 hPa
Density:	1,11 g/cm ³
Water solubility:	insoluble

Solubility in other solvents

miscible with most organic solvents: Acetone, Alcohol

Solvent content:	2,58 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

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

Exposure to light. Keep away from direct sunlight. Do not expose to temperatures above 40 °C.

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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data is available on the product itself.

ATEmix calculated

ATE (inhalative vapour) 10,66 mg/l

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 12 of 17

Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
27813-02-1	HYDROXYPROPYL METHACRYLATE			
	oral	LD50 >2000 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >5000 mg/kg	rabbit	
868-77-9	2-hydroxyethyl methacrylate			
	oral	LD50 5050 mg/kg	Rat	
	dermal	LD50 >5000 mg/kg	rabbit	
32435-46-4	BIS PHOSPHATE (=Bis-(2-Methacryloyloxy) Ethyl Phosphate)			
	oral	LD50 >2000 mg/kg	Ratte	
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE			
	oral	LD50 >2000 mg/kg	rat	
	dermal	LD50 >2000 mg/kg	rabbit	
122985-55-1	Ethoxylated Polypropylene Glycol Dimethacrylate			
	oral	LD50 >2000 mg/kg		
3290-92-4	TRIMETHYLOLPROPANE TRIMETHACRYLATE			
	oral	LD50 >2000 mg/kg	rat	
	dermal	LD50 >2000 mg/kg	rat	
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate			
	oral	LD50 >5000 mg/kg	rat	
	dermal	LD50 5170 mg/kg	rabbit	
7575-23-7	Pentaerythritol Tetrakis (3-Mercaptopropionate)			
	oral	LD50 >1000 mg/kg	Ratte	
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			
	oral	LD50 >5000 mg/kg	rat	
	dermal	LD50 >2000 mg/kg	rat	
42978-66-5	(1-methyl-1,2-ethanediy)bis[oxy(methyl-2,1-ethanediy)] diacrylate			
	oral	LD50 6800 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >2000 mg/kg	rabbit	OECD Test Guideline 402

Specific effects in experiment on an animal

No data is available on the product itself.

Practical experience

Other observations

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 13 of 17

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	
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)	
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	836 mg/l	72 h	Selenastrum capricornutum (green algae)	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	Selenastrum capricornutum (green algae)	OECD Test Guideline 201
	Crustacea toxicity	NOEC	171 mg/l	2 d	Daphnia magna (Water flea)	OECD Test Guideline 202
	Acute bacteria toxicity		(8560 mg/l)	3 h		
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE					
	Acute fish toxicity	LC50	8,9 mg/l	96 h	Cyprinus carpio (Carp)	
	Acute algae toxicity	ErC50	>36 mg/l	72 h	Selenastrum capricornutum (green algae)	
	Acute crustacea toxicity	EC50	18 mg/l	48 h	Daphnia magna (Water flea)	
	Algae toxicity	NOEC	6,6 mg/l	3 d	Selenastrum capricornutum (green algae)	
	Crustacea toxicity	NOEC	8,4 mg/l	2 d	Daphnia magna (Water flea)	
	Acute bacteria toxicity		(>100 mg/l)	3 h	Respiration inhibition of activated sludge	
3290-92-4	TRIMETHYLOLPROPANE TRIMETHACRYLATE					
	Acute fish toxicity	LC50	2 mg/l	96 h	Oncorhynchus mykiss (rainbow trout)	
	Acute algae toxicity	ErC50	3,88 mg/l	72 h	Selenastrum capricornutum (green algae)	
	Acute crustacea toxicity	EC50	>9,22 mg/l	48 h	Daphnia magna (Water flea)	
	Fish toxicity	NOEC	1 mg/l		Oncorhynchus mykiss (rainbow trout)	
	Algae toxicity	NOEC	0,177 mg/l	3 d	Selenastrum capricornutum (green algae)	
	Crustacea toxicity	NOEC	>9,2 mg/l	2 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)	

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 14 of 17

	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)	
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		
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		

12.2. Persistence and degradability

No data is available on the product itself.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 15 of 17

CAS No	Chemical name	Value	d	Source
	Method			
	Evaluation			
27813-02-1	HYDROXYPROPYL METHACRYLATE	81%	28	
868-77-9	2-hydroxyethyl methacrylate	92-100%	14	
	Readily biodegradable.			
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE	0-2%	29	
	Not readily biodegradable.			
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate	66%	10	
	Readily biodegradable.			
7575-23-7	Pentaerythritol Tetrakis (3-Mercaptopropionate)	26%	28	
	Not readily biodegradable.			
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate	<10%	28	
	Not readily biodegradable.			
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	48%	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
27813-02-1	HYDROXYPROPYL METHACRYLATE	0,97
868-77-9	2-hydroxyethyl methacrylate	0,42
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE	2,43-3,44
3290-92-4	TRIMETHYLOLPROPANE TRIMETHACRYLATE	2,75-4,19
15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate, trimethylolpropane triacrylate	>3,3
7575-23-7	Pentaerythritol Tetrakis (3-Mercaptopropionate)	3,03
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate	2,91
42978-66-5	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	2

BCF

CAS No	Chemical name	BCF	Species	Source
27813-02-1	HYDROXYPROPYL METHACRYLATE	3,2		
868-77-9	2-hydroxyethyl methacrylate	1,34-1,54		
1384855-91-7	DIPENTAERYTHRITYL HEXAACRYLATE	18,6-86,4		
7575-23-7	Pentaerythritol Tetrakis (3-Mercaptopropionate)	75		

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 16 of 17

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: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Natural Nail boost gel with Keratin - P

Print date: 11.03.2016

Product code: 21335

Page 17 of 17

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.

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

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 12,58 % (139,638 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). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH204	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.

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