

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 1 of 16

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

1.1. Product identifier

Bio Bond

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:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

Highly flammable liquid and vapour.

May cause an allergic skin reaction.

Causes serious eye irritation.

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

Polyether Acrylate Oligomer = PEG TRIMETHYLOLPROPANE TRIACRYLATE

4-META

Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate

Signal word: Danger

Pictograms:



Hazard statements

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 2 of 16

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/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands after handling. thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
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.
--------	--

2.3. Other hazards

Keep out of the reach of children. Irritating to eyes and skin. May cause sensitization by skin contact. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 3 of 16

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
78-93-3	butanone; ethyl methyl ketone			10 - 25 %
	201-159-0	606-002-00-3		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
27813-02-1	HYDROXYPROPYL METHACRYLATE			5 - 10 %
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
28961-43-5	Polyether Acrylate Oligomer = PEG TRIMETHYLOLPROPANE TRIACRYLATE			1 - 5 %
	500-066-5		01-2119489900-30	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
70293-55-9	4-META			0,1 - 1 %
	274-547-0			
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H302 H315 H319 H317			
84434-11-7	Acyolphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			0,1 - 1 %
	282-810-6		01-2119987994-10	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol			<0,1 %
	204-617-8	604-005-00-4		
	Carc. 2, Muta. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H351 H341 H302 H318 H317 H400			

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.

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 4 of 16

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

Vapours may cause irritation to the eyes, respiratory system and the skin. May cause sensitization by skin contact. Vapours may cause drowsiness and dizziness. Symptoms: Exposure may result in reddening, tears and itching of the eyes and soreness in the nose and throat, together with coughing. Difficulty in breathing. May cause headache and dizziness. Unconsciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

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.

Vapours are heavier than air and may spread along floors. Vapors may spread long distances and ignite.

Vapours may form explosive mixtures with air. 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. 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).

6.4. Reference to other sections

13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 5 of 16

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. Take precautionary measures against static discharges. Vapors may spread long distances and ignite. Vapours may form explosive mixtures with air.

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. Keep in an area equipped with solvent resistant flooring.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.
Materials to avoid: Oxidizing and spontaneously flammable products, Flammable materials, Organic peroxides, Oxidizing agents

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
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
123-31-9	Hydroquinone	-	0.5		TWA (8 h)	WEL
		-	-		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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 6 of 16

Worker DNEL, acute	inhalation	local	1900 mg/m ³
Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	114 mg/m ³
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Consumer DNEL, acute	inhalation	local	950 mg/m ³
78-93-3	butanone; ethyl methyl ketone		
Consumer DNEL, long-term	dermal	systemic	412 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	31 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	1161 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	106 mg/m ³
Worker DNEL, long-term	inhalation	systemic	600 mg/m ³
51728-26-8	Polyetherpolyol Tetraacrylate		
Consumer DNEL, long-term	oral	systemic	0,375 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	0,88 mg/m ³
Worker DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,217 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,25 mg/kg bw/day
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
28961-43-5	Polyether Acrylate Oligomer = PEG TRIMETHYLOLPROPANE TRIACRYLATE		
Consumer DNEL, long-term	inhalation	systemic	4,9 mg/m ³
Consumer DNEL, long-term	dermal	systemic	0,5 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	16,2 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,4 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	0,8 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
,			
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol		
Consumer DNEL, long-term	dermal	systemic	64 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	128 mg/kg bw/day
Worker DNEL, long-term	inhalation	local	1 mg/m ³
Consumer DNEL, long-term	inhalation	local	0,5 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	1,74 mg/m ³

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 7 of 16

Worker DNEL, long-term	inhalation	systemic	7 mg/m ³
------------------------	------------	----------	---------------------

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 8 of 16

Freshwater sediment	3,6 mg/kg
Freshwater	0,96 mg/l
Marine sediment	2,9 mg/kg
Marine water	0,79 mg/l
Soil	0,63 mg/kg
Secondary poisoning	720 mg/kg
78-93-3	butanone; ethyl methyl ketone
Freshwater	55,8 mg/l
Marine sediment	284,7 mg/kg
Soil	22,5 mg/kg
Marine water	55,8 mg/l
Secondary poisoning	1000 mg/kg
Micro-organisms in sewage treatment plants (STP)	709 mg/l
Freshwater sediment	284,74 mg/kg
51728-26-8	Polyetherpolyol Tetraacrylate
Freshwater	0,00176 mg/l
Marine water	0,000176 mg/l
Freshwater sediment	0,017 mg/kg
Marine sediment	0,0017 mg/kg
Soil	0,0078 mg/kg
Micro-organisms in sewage treatment plants (STP)	4 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
28961-43-5	Polyether Acrylate Oligomer = PEG TRIMETHYLOLPROPANE TRIACRYLATE
Freshwater	0,00195 mg/l
Marine water	0,000195 mg/l
Freshwater sediment	0,0082 mg/kg
Marine sediment	0,00082 mg/kg
Secondary poisoning	5,6 mg/kg
Soil	0,00587 mg/kg
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
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol
Micro-organisms in sewage treatment plants (STP)	0,71 mg/l
Freshwater sediment	0,00098 mg/kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 9 of 16

Marine sediment	0,000097 mg/kg
Freshwater	0,000114 mg/l
Marine water	0,0000114 mg/l
Soil	0,000129 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.

Solvent-resistant gloves (butyl-rubber)-Wear protective gloves.

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:	liquid
Colour:	colourless
Odour:	characteristic

Test method

Changes in the physical state

Initial boiling point and boiling range:	78 °C
Flash point:	-9 °C
Lower explosion limits:	1,5 vol. %
Upper explosion limits:	15 vol. %
Ignition temperature:	355 °C
Vapour pressure: (at 20 °C)	101 hPa

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 10 of 16

Vapour pressure:
(at 50 °C) 360 hPa

Density: 0,85 g/cm³

Water solubility: miscible

Solubility in other solvents

miscible with most organic solvents: Acetone, Alcohol

Solvent content: 74,97 %

9.2. Other information

*) ethanol, ethyl alcohol

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. Take measures to prevent the build up of electrostatic charge.

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.

Further information

Vapours may form explosive mixtures with air.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data is available on the product itself.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 11 of 16

Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
78-93-3	butanone; ethyl methyl ketone			
	oral	LD50 >2193 mg/kg	rat	
	dermal	LD50 >5000 mg/kg	rabbit	
27813-02-1	HYDROXYPROPYL METHACRYLATE			
	oral	LD50 >2000 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >5000 mg/kg	rabbit	
28961-43-5	Polyether Acrylate Oligomer = PEG TRIMETHYLOLPROPANE TRIACRYLATE			
	oral	LD50 >5000 mg/kg	rat	OECD Test Guideline 401
	dermal	LD50 >13200 mg/kg	rabbit	
70293-55-9	4-META			
	oral	LD50 987 mg/kg	rat	
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			
	oral	LD50 >5000 mg/kg	rat	
	dermal	LD50 >2000 mg/kg	rat	
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol			
	oral	LD50 >300<600 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.

Further information

Harmful if swallowed. Effects due to ingestion may include: Nausea, narcosis, Weakness, Dizziness, Unconsciousness. If inhaled: Irritation of mucous membranes, Dizziness. Repeated exposure may cause skin dryness or cracking.

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

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 12 of 16

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h] [d]	Species	Source
78-93-3	butanone; ethyl methyl ketone				
	Acute fish toxicity	LC50 2990 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50 1972 mg/l	72 h	Selenastrum capricornutum (green algae)	
	Acute crustacea toxicity	EC50 308 mg/l	48 h	Daphnia magna (Water flea)	
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)	
28961-43-5	Polyether Acrylate Oligomer = PEG TRIMETHYLOLPROPANE TRIACRYLATE				
	Acute fish toxicity	LC50 1,95 mg/l	96 h	Brachydanio rerio (zebra fish)	OECD Test Guideline 203
	Acute algae toxicity	ErC50 2,2 mg/l	72 h		OECD Test Guideline 201
	Acute crustacea toxicity	EC50 70,7 mg/l	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202
84434-11-7	Acylophosphine = 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		

12.2. Persistence and degradability

No data is available on the product itself.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 13 of 16

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
78-93-3	butanone; ethyl methyl ketone			
		98%	28	
	Readily biodegradable, according to appropriate OECD test.			
27813-02-1	HYDROXYPROPYL METHACRYLATE			
		81%	28	
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate			
		<10%	28	
	Not readily biodegradable.			
123-31-9	1,4-dihydroxybenzene; hydroquinone; quinol			
		70%	14	
	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
27813-02-1	HYDROXYPROPYL METHACRYLATE	0,97
28961-43-5	Polyether Acrylate Oligomer = PEG TRIMETHYLOLPROPANE TRIACRYLATE	2,89
84434-11-7	Acylphosphine = Ethyl Trimethylbenzoyl Phenylphosphinate	2,91

BCF

CAS No	Chemical name	BCF	Species	Source
27813-02-1	HYDROXYPROPYL METHACRYLATE	3,2		

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.

Further information

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 14 of 16

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 1263

14.2. UN proper shipping name: Paint

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Classification code: F1
 Special Provisions: 163 640C 650
 Limited quantity: 5 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 33
 Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number: UN 1263

14.2. UN proper shipping name: Paint

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Classification code: F1
 Special Provisions: 163 640C 650
 Limited quantity: 5 L
 Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1263

14.2. UN proper shipping name: Paint

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 15 of 16

Hazard label: 3



Special Provisions: 163
 Limited quantity: 5 L
 Excepted quantity: E2
 EmS: F-E, S-E

Air transport (ICAO)

14.1. UN number: UN 1263

14.2. UN proper shipping name: Paint

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Special Provisions: A3 A72
 Limited quantity Passenger: 1 L
 Passenger LQ: Y341
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 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.

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

2010/75/EU (VOC): 74,97 % (637,245 g/l)
 2004/42/EC (VOC): 74,97 % (637,245 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.
 Water contaminating class (D): 2 - water contaminating

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio Bond

Print date: 11.03.2016

Product code: 2296

Page 16 of 16

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
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.)