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050		
SEC	TION 1: Identification of the subst	ance/mixture and of the company/undertaking
.1	Product identifier	
		ResiFIX Epoxyacrylate EYSF, Comp. A
.2	Relevant identified uses of the su	ibstance or mixture and uses advised against
.2.1	I Relevant uses	
		Adhesive mortar for fastening to concrete elements A-Component (Resin)
~ ~		
.2.2	2 Uses advised against	Nena Incum
		None known.
.3	Details of the supplier of the safe	ty data sheet
	Company	Apolo MEA Befestigungssysteme GmbH
		Industriestr. 6 86551 Aichach / GERMANY
		Phone +49 (0) 8251 90 485 0
		Fax +49 (0)8251 90 485 - 49 E-mail info@apolofixing.com
	Address enquiries to	
	Technical information	info@apolofixing.com
	Safety Data Sheet	info@apolofixing.com
	Safety Data Sheet	
.4	Emergency telephone number	
	Advisory body	+49 (0)89-19240 (24h) (english)
SEC	TION 2: Hazards identification	
2.1	Classification of the substance o	r mixture
		Eye Irrit. 2: H319 Causes serious eye irritation.
		Skin Irrit. 2: H315 Causes skin irritation.
		Skin Sens. 1: H317 May cause an allergic skin reaction. Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.
2	Label elements	
.2	Label elements	The product is closerified and required to be labelled in accordance with EC Directives
	Hazard pictograms	The product is classified and required to be labelled in accordance with EC-Directives
	nazaru piciogranis	$\langle ! \rangle$
	Signal word	WARNING
	Signal word Contains:	2-Hydroxyethyl methacrylate
	Contains.	Ethylene dimethacrylate
		Methacrylic acid, monoester with Propan-1,2-diole
	Hazard statements	H319 Causes serious eye irritation.
		H315 Causes skin irritation.
		H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
	Precautionary statements	P101 If medical advice is needed, have product container or label at hand.
		P102 Keep out of reach of children.
		P273 Avoid release to the environment. P280 Wear protective gloves / eye protection / face protection.
		P363 Wash contaminated clothing before reuse.
		P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.
.3	Other hazards	
	Environmental herorde	Doos not contain any PPT or yPyP substances

Does not contain any PBT or vPvB substances.

**Environmental hazards** 



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## SECTION 3: Composition / Information on ingredients

## Product-type:

## The product is a mixture.

Range [%]	Substance
5 - <15	2-Hydroxyethyl methacrylate
	CAS: 868-77-9, EINECS/ELINCS: 212-782-2, EU-INDEX: 607-124-00-X
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315 - Skin Sens. 1: H317
1 - <10	Vinyltoluene
	CAS: 25013-15-4, EINECS/ELINCS: 246-562-2
	GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Eye Irrit. 2: H319 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Aquatic Chronic 2: H411
1 - <5	Ethylene dimethacrylate
	CAS: 97-90-5, EINECS/ELINCS: 202-617-2, EU-INDEX: 607-114-00-5
	GHS/CLP: STOT SE 3: H335 - Skin Sens. 1: H317
1 - <5	Methacrylic acid, monoester with Propan-1,2-diole
	CAS: 27813-02-1, EINECS/ELINCS: 248-666-3
	GHS/CLP: Eye Irrit. 2: H319 - Skin Sens. 1: H317
0,1 - <1	1,1'-(p-Tolylimino)dipropan-2-ol
	CAS: 38668-48-3, EINECS/ELINCS: 254-075-1
	GHS/CLP: Acute Tox. 2: H300 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412
	GHS/CLP: Acute Tox. 2: H300 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412

Comment	on com	ponent	parts	Su
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Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

	Change soaked clothing immediately.
nhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
ngestion	Supply with medical care. Rinse out mouth and give plenty of water to drink.
	ikin contact iye contact

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

Irritant effects Allergic reactions

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

## 5.1 Extinguishing media

Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products. Carbon monoxide (CO)



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.3 A	Advice for firefighters	Do not inhole evaluation and/or combustion gappa
		Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.
		Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
BECTI	ON 6: Accidental release measur	es
.1 P	Personal precautions, protective	equipment and emergency procedures
		Ensure adequate ventilation.
		Use personal protective equipment.
.2 E	Environmental precautions	
		Do not discharge into the drains/surface waters/groundwater.
.3 N	lethods and material for contain	ment and cleaning up
		Take up mechanically.
		Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).
		Dispose of absorbed material in accordance within the regulations.
.4 F	Reference to other sections	See SECTION 8+13
	ON 7: Handling and storage	
'.1 F	Precautions for safe handling	
		Use only in well-ventilated areas.
		Do not eat, drink, smoke or take drugs at work.
		Wash hands before breaks and after work.
		Use barrier skin cream.
.2 0	Conditions for safe storage, inclu	ding any incompatibilities
		Keep only in original container.
		Do not store together with food and animal food/diet.
		Keep container in a well-ventilated place.
		Keep container tightly closed.
		Keep in a cool place. Store in a dry place. Protect from atmospheric moisture and water.
		Recommended storage temperature: 5 - 25 °C
.3 S	Specific end use(s)	
		See product use, SECTION 1.2
ECTI	ON 8: Exposure controls / perso	nal protection
		•
(	Control parameters	
	ngredients with occupational	

Range [%]	Substance
1 - <10 Vinyltoluene	
	CAS: 25013-15-4, EINECS/ELINCS: 246-562-2
	Long-term exposure: 100 ppm, 491 mg/m <sup>3</sup>
	Short-term exposure (15-minute): 150 ppm, 736 mg/m <sup>3</sup>



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## 8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374).
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

•	information on pasic physical and	chemical properties
	Form	pasty
	Color	light beige
	Odor	characteristic
	Odour threshold	not determined
	pH-value	not applicable
	pH-value [1%]	not applicable
	Boiling point [°C]	not determined
	Flash point [°C]	not applicable
	Flammability (solid, gas) [°C]	not determined
	Lower explosion limit	0,9 Vol%
	Upper explosion limit	9,5 Vol%
	Oxidizing properties	not determined
	Vapour pressure/gas pressure [kPa]	not determined
	Density [g/ml]	not determined
	Bulk density [kg/m³]	not applicable
	Solubility in water	insoluble
	Partition coefficient [n-octanol/water]	not determined
	Viscosity	not determined
	Relative vapour density determined in air	not determined
	Evaporation speed	not determined
	Melting point [°C]	not determined
	Autoignition temperature [°C]	not determined
	Decomposition temperature [°C]	not determined
2	Other information	

## 9.2 Other information

No information available.

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

See SECTION 10.3.



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## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

## 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents. Reactions with acids.

## 10.4 Conditions to avoid

See SECTION 7.2.

## 10.5 Incompatible materials

Strong oxidizing agent.

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## Acute toxicity

Product
ATE-mix, inhalative, Rat: > 100 mg/l.
ATE-mix, oral, Rat: > 5000 mg/kg.

Range [%]	Substance
1 - <5	Ethylene dimethacrylate, CAS: 97-90-5
	LD50, oral, Rat: 3300 mg/kg (RTECS).
5 - <15	2-Hydroxyethyl methacrylate, CAS: 868-77-9
	LD50, dermal, Rabbit: > 3000 mg/kg (IUCLID).
	LD50, oral, Rat: 5564 mg/kg (IUCLID).
1 - <5	Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
	LD50, dermal, Rabbit: > 5000 mg/kg (IUCLID).
	LD50, oral, Rat: > 4000 mg/kg (IUCLID).
0,1 - <1	1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3
	LD50, oral, Rat: 27,5 mg/kg.
1 - <10	Vinyltoluene, CAS: 25013-15-4
	LD50, oral, Rat: 4000 mg/kg (IUCLID).
	LC50, inhalative, mouse: 3,02 mg/l/4h (IUCLID).
	LC50, inhalative, Rat: 2500 ppm/8h (IUCLID).

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Mutagenicity	There is no evidence of any mutagenic effects.
Reproduction toxicity	There is no evidence of any reproductive toxicity effects.
Carcinogenicity	There is no evidence of any carcinogenic effects.
General remarks	
	The product was classified on the basis of the calculation procedure of the preparation directive. Toxicological data of complete product are not available.



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## SECTION 12: Ecological information

## 12.1 Toxicity

Range [%] Substance
1 - <5 Ethylene dimethacrylate, CAS: 97-90-5
LC50, (96h), Danio rerio: 15,95 mg/l (OECD 203).
EC50, (3h), Pseudomonas putida: 570 mg/l (OECD 209).
5 - <15 2-Hydroxyethyl methacrylate, CAS: 868-77-9
LC50, (96h), Pimephales promelas: 227 mg/L (IUCLID).
EC50, (96h), Pimephales promelas: 227 mg/L (IUCLID).
1 - <5 Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1
LC50, (48h), Leuciscus idus: 493 mg/L (IUCLID).
EC10, (16h), Pseudomonas putida: 1140 mg/l (IUCLID).
0,1 - <1 1,1'-(p-Tolylimino)dipropan-2-ol, CAS: 38668-48-3
LC50, (96h), fish: 17 mg/l.
EC50, (48h), Daphnia magna: 28,8 mg/l.
1 - <10 Vinyltoluene, CAS: 25013-15-4
LC50, (96h), Pimephales promelas: 23,4 mg/l (IUCLID).

## 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

## 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Other adverse effects

Do not discharge product unmonitored into the environment.

The product was classified on the basis of the calculation procedure of the preparation directive.

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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## SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

## Product

	Coordinate disposal with the disposal contractor/authorities if necessary.
Waste no. (recommended)	080409*
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended)	150110* 150102

## **SECTION 14: Transport information**

### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
Inland navigation (ADN)	NO DANGEROUS GOODS
Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

## 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

## 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable



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#### SECTION 15: Regulatory information

15.1	1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EEC-REGULATIONS	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
	TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
	- Observe employment restrictions for people	yes
	- VOC (1999/13/CE)	0 %
15.2 Chemical safety assessment		
		not applicable

#### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.

- H318 Causes serious eye damage.
- H300 Fatal if swallowed.
- H335 May cause respiratory irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H304 May be fatal if swallowed and enters airways.
- H332 Harmful if inhaled.
- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

#### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises

- dangereuses
- ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
- CAS = Chemical Abstracts Service
- CLP = Classification, Labelling and Packaging
- DMEL = Derived Minimum Effect Level
- DNEL = Derived No Effect Level
- EC50 = Median effective concentration
- ECB = European Chemicals Bureau
- EEC = European Economic Community
- EINECS = European Inventory of Existing Commercial Chemical Substances
- ELINCS = European List of Notified Chemical Substances
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC-Code = International Code for the Construction and Equipment of Ships carrying
  - Dangerous Chemicals in Bulk
  - IC50 = Inhibition concentration, 50%
  - IMDG = International Maritime Code for Dangerous Goods
  - IUCLID = International Uniform ChemicaL Information Database
  - LC50 = Lethal concentration, 50%
- LD50 = Median lethal dose
- MARPOL = International Convention for the Prevention of Marine Pollution from Ships PBT = Persistent, Bioaccumulative and Toxic substance
- PNEC = Predicted No-Effect Concentration
- REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
- TLV®/TWA = Threshold limit value time-weighted average
- TLV®STEL = Threshold limit value short-time exposure limit
- VOC = Volatile Organic Compounds
- vPvB = very Persistent and very Bioaccumulative



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16.3 Other information		
Classification procedure	Eye Irrit. 2: H319 Causes serious eye irritation. () Skin Irrit. 2: H315 Causes skin irritation. () Skin Sens. 1: H317 May cause an allergic skin reaction. () Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. ()	
Modified position	none	
	Copyright: Chemiebüro®	

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SEC	TION 1: Identification of the subs	stance/mixture and of the company/undertaking
.1	Product identifier	
		ResiFIX Epoxyacrylate EYSF, Comp. B
.2	Relevant identified uses of the	substance or mixture and uses advised against
.2.1	Relevant uses	
		Adhesive mortar for fastening to concrete elements B-Component (Hardener)
.2.2	2 Uses advised against	
	C C	None known.
.3	Details of the supplier of the sa	fety data sheet
	Company	Apolo MEA Befestigungssysteme GmbH
	Company	Industriestr. 6
		86551 Aichach / GERMANY
		Phone +49 (0) 8251 90 485 0 Fax +49 (0)8251 90 485 - 49
		E-mail info@apolofixing.com
	Address enquiries to	
	Technical information	info@apolofixing.com
	Safety Data Sheet	info@apolofixing.com
.4	Emergency telephone number	
	Advisory body	+49 (0)89-19240 (24h) (english)
SEC	TION 2: Hazards identification	
.1	Classification of the substance	or mixture
		Skin Sens. 1: H317 May cause an allergic skin reaction.
		Eye Irrit. 2: H319 Causes serious eye irritation.
.2	Label elements	
		The product is required to be labelled in accordance with GHS/CLP-Directives.
	Hazard pictograms	
	Signal word	WARNING
	Contains:	Dibenzoyl peroxide
	Hazard statements	H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.
	Precautionary statements	P101 If medical advice is needed, have product container or label at hand.
		P102 Keep out of reach of children.
		P261 Avoid breathing vapours. P280 Wear protective gloves / eye protection / face protection.
		P363 Wash contaminated clothing before reuse.
		P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.
.3	Other hazards	
	Environmental hazards	Does not contain any PBT or vPvB substances.
	Other hazards	Further hazards were not determined with the current level of knowledge.



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## **SECTION 3: Composition / Information on ingredients**

## Product-type:

#### The product is a mixture.

Range [%]	6] Substance	
1 - <20	1 - <20 Dibenzoyl peroxide	
	CAS: 94-36-0, EINECS/ELINCS: 202-327-6, EU-INDEX: 617-008-00-0, ECB-Nr.: 01-2119511472-50-XXXX	
	GHS/CLP: Org. Perox. B: H241 - Eye Irrit. 2: H319 - Skin Sens. 1: H317 - Aquatic Acute 1: H400, M = 10	
1 - <5	Reaction mass of Diethylene glycole dibenzoate, Dipropylene glycole dibenzoate and Triethylene glycol dibenzoate	
	ECB-Nr.: 01-2119535193-44-XXXX	
1 - <5	2-Ethylhexyl benzoate	
	CAS: 5444-75-7, EINECS/ELINCS: 226-641-8	
	GHS/CLP: Aquatic Chronic 4: H413	
1 - <5	Quartz (< 10µm)	
	CAS: 14808-60-7, EINECS/ELINCS: 238-878-4	
	GHS/CLP: STOT RE 1: H372	

Comment on component parts

The quartz in this preparation is not available on foreseeable use. Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

4.1	Description of first aid measures	
	General information	Take off contaminated clothing and wash before reuse.
	Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
	Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
	Ingestion	Supply with medical care. Rinse out mouth and give plenty of water to drink.

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

Allergic reactions Irritant effects

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

5.1 Extinguishing media Suitable extinguishing media Carbon dioxide. Dry powder. Water spray jet. Extinguishing media that must not be used Foam.

## 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO)



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5.3	Advice for firefighters	Do not inhole evaluation and/or combustion access	
		Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus.	
		Fire residues must be disposed of in accordance within the local regulations.	
SEC	CTION 6: Accidental release measu	res	
6.1	Personal precautions, protective	equipment and emergency procedures	
		Ensure adequate ventilation. Use personal protective equipment. High risk of slipping due to leakage/spillage of product. Keep away from all sources of ignition.	
6.2	Environmental precautions		
		Do not discharge into the drains/surface waters/groundwater. In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.	
6.3	Methods and material for contain	ment and cleaning up	
		Take up mechanically. Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.	
6.4	Reference to other sections		
		See SECTION 8+13	
SEC	TION 7: Handling and storage		
7.1	Precautions for safe handling		
	C C	Use only in well-ventilated areas.	
		Keep away from all sources of ignition - Refrain from smoking.	
		Take off contaminated clothing and wash before reuse. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.	
7.2	Conditions for safe storage, inclu	iding any incompatibilities	
		Keep only in original container. Prevent penetration into the ground.	
		Do not store together with food and animal food/diet.	
		Keep container in a well-ventilated place. Keep container tightly closed. Keep in a cool place. Store in a dry place. Store in a dark place. Protect from atmospheric moisture and water. Recommended storage temperature: 5 °C - +25 °C	
7.3	Specific end use(s)	See product use, SECTION 1.2	



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## 8.1 Control parameters

## Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
1 - <5	Quartz (< 10µm)
	CAS: 14808-60-7, EINECS/ELINCS: 238-878-4
	Long-term exposure: 0,15 mg/m <sup>3</sup> , HSE, NIOSH, OSHA
1 - <20	Glycerol
	CAS: 56-81-5, EINECS/ELINCS: 200-289-5
	Long-term exposure: 10 mg/m <sup>3</sup> , (mist)
1 - <20	Dibenzoyl peroxide
	CAS: 94-36-0, EINECS/ELINCS: 202-327-6, EU-INDEX: 617-008-00-0, ECB-Nr.: 01-2119511472-50-XXXX
	Long-term exposure: 5 mg/m <sup>3</sup>

## DNEL

Range [%]	Substance
1 - <20	Dibenzoyl peroxide, CAS: 94-36-0
	Industrial, dermal, Long-term - systemic effects: 6,6 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 11,75 mg/m <sup>3</sup> .
	general population, oral, Long-term - systemic effects: 1,65 mg/kg bw/d.
	general population, dermal, Long-term - systemic effects: 3,3 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 2,9 mg/m <sup>3</sup> .
PNEC	
Range [%]	Substance
1 - <20	Dibenzoyl peroxide, CAS: 94-36-0
	oral (food), 6,67 mg/kg dw.
	soil, 0,0758 mg/kg dw.
	sediment (freshwater), 0,338 mg/kg dw.
	sewage treatment plants (STP), 0,35 mg/l.
	freshwater, 0,000602 mg/l.

seawater, 0,0000602 mg/l.



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## Apolo MEA Befestigungssysteme GmbH

## 86551 Aichach

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## 8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In splash contact Nitrile rubber, >120 min (EN 374). In full contact: Butyl rubber, >480 min (EN 374).
Skin protection	Protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Form	pasty
Color	black
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	116
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	not determined
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

## 9.2 Other information

No information available.



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## SECTION 10: Stability and reactivity

#### 10.1 Reactivity

See SECTION 10.3.

#### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

#### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

#### 10.4 Conditions to avoid

Strong heating. See SECTION 7.2.

#### 10.5 Incompatible materials

Strong oxidizing agent.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

#### **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

#### Acute toxicity

Range [%]	Substance
1 - <5	2-Ethylhexyl benzoate, CAS: 5444-75-7
	LD50, dermal, Rabbit: >5000 mg/kg bw.
	LD50, oral, Rat: >2000 mg/kg bw.
1 - <20	Dibenzoyl peroxide, CAS: 94-36-0
	LD50, oral, Rat: >5000 mg/kg.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	There is no evidence of any mutagenic effects.
Reproduction toxicity	There is no evidence of any reproductive toxicity effects.
Carcinogenicity	There is no evidence of any carcinogenic effects.
General remarks	
	Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the

medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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## SECTION 12: Ecological information

## 12.1 Toxicity

Product
EC50, (72h), Pseudokirchneriella subcapitata: > 1 mg/l.
EC50, (48h), Daphnia magna: > 1 mg/l.

Range [%]	Substance	
1 - <20	Dibenzoyl peroxide, CAS: 94-36-0	
	LC50, (96h), Oncorhynchus mykiss: 0,0602 mg/l (OECD 203).	
	LC50, (96h), fish: 1,7-2,4 mg/l (OECD 203).	
	EC50, (48h), Daphnia magna: 2,91 mg/l (OECD 202).	
	EC50, (48h), Daphnia magna: 0,11 mg/l (OECD 202).	
	EC50, (72h), Pseudokirchneriella subcapitata: 0,0711 mg/l (OECD 201).	
	NOEC, (48h), Daphnia magna: 1,99 mg/l.	

#### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

#### 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information available.

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Other adverse effects

No classification due to toxicological investigations. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

## Product

	Coordinate disposal with the disposal contractor/authorities if necessary.
Waste no. (recommended)	080409*
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended)	150110* 150102



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## **SECTION 14: Transport information**

#### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS
ADR/RID	

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS" IMDG

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

#### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

#### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not applicable

5.1 Safety, health and environmental	Safety, health and environmental regulations/legislation specific for the substance or mixture	
EEC-REGULATIONS	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830	
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).	
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4	
- Observe employment restrictions for people	Observe employment restrictions for young people.	
- VOC (1999/13/CE)	0 %	

## **SECTION 16: Other information**

## 16.1 Hazard statements (SECTION 3)

H372 Causes damage to organs through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

H400 Very toxic to aquatic life.

not applicable

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H241 Heating may cause a fire or explosion.



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Date printed 10.07.2015, Revision 25.02.2015 Version 04. Supersedes version: 03 16.2 Abbreviations and acronyms: ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure CAS = Chemical Abstracts Service CLP = Classification. Labelling and Packaging

		CLP = Classification, Labelling and Packaging
		DMEL = Derived Minimum Effect Level
		DNEL = Derived No Effect Level
		EC50 = Median effective concentration
		ECB = European Chemicals Bureau
		EEC = European Economic Community
		EINECS = European Inventory of Existing Commercial Chemical Substances
		ELINCS = European List of Notified Chemical Substances
		GHS = Globally Harmonized System of Classification and Labelling of Chemicals
		IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying
		Dangerous Chemicals in Bulk
		IC50 = Inhibition concentration, 50%
		IMDG = International Maritime Code for Dangerous Goods
		IUCLID = International Uniform Chemical Information Database
		LC50 = Lethal concentration, 50%
		LD50 = Median lethal dose
		MARPOL = International Convention for the Prevention of Marine Pollution from Ships
		PBT = Persistent, Bioaccumulative and Toxic substance
		PNEC = Predicted No-Effect Concentration
		REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
		TLV®/TWA = Threshold limit value – time-weighted average
		TLV®STEL = Threshold limit value – short-time exposure limit
		VOC = Volatile Organic Compounds
		vPvB = very Persistent and very Bioaccumulative
16.3	Other information	
	Classification procedure	Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method) Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
	Modified position	SECTION 2 been added: R 51/53: Toxic to aquatic organisms, may cause long-term adverse
		effects in the aquatic environment.
		SECTION 2 been added: Dangerous for the environment
		SECTION 6 been added: In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.
		SECTION 11 been added: Toxicological data of complete product are not available.
		SECTION 11 deleted: Sensitizing.
		SECTION 11 deleted: Slight irritant effect - does not require labelling.
		SECTION 16 been added: Calculation method

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