

86551 Aichach Date printed 10.07.2015, Revision 25.03.2014 Version 03. Supersedes version: 02 Page 1 / 9 SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1 ResiFIX Vinylester VYSF, Comp. A Relevant identified uses of the substance or mixture and uses advised against 1.2 1.2.1 Relevant uses Adhesive mortar for fastening to concrete elements A-Component (Resin) 1.2.2 Uses advised against None known. 1.3 Details of the supplier of the safety 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 1.4 Emergency telephone number Advisory body +49 (0)89-19240 (24h) (english) SECTION 2: Hazards identification 2.1 Classification of the substance or mixture STOT SE 3: H335 May cause respiratory irritation. Skin Sens. 1: H317 May cause an allergic skin reaction. Label elements 2.2 The product is classified and required to be labelled in accordance with EC-Directives Hazard pictograms Signal word WARNING Contains: Ethylene dimethacrylate Methacrylic acid, monoester with Propan-1,2-diole Hazard statements H335 May cause respiratory irritation. H317 May cause an allergic skin reaction. P101 If medical advice is needed, have product container or label at hand. **Precautionary statements** P102 Keep out of reach of children. P261 Avoid breathing vapours. P280 Wear protective gloves. P333+P313 If skin irritation or rash occurs: Get medical advice / attention. P363 Wash contaminated clothing before reuse. P501 Dispose of contents / container to in accordance with local / regional / national / international regulation. Other hazards 2.3 Human health dangers Persons already sensitised to methacrylates may develop allergic reactions when using this product. 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 [%]	Substance	
10 - <20	- <20 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 - <10	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	
1 - <5	Quartz (< 10µm)	
	CAS: 14808-60-7, EINECS/ELINCS: 238-878-4	
	GHS/CLP: STOT RE 1: H372	

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Comment on component parts
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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 eff	ects, 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	Carbon dioxide. Dry powder. Water spray jet.
Extinguishing media that must not be used	Full water jet 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 inhale explosion and/or c Use self-contained breathing app	0

Fire residues must be disposed of in accordance within the local regulations.

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SEC	SECTION 6: Accidental release measures		
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.	
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 containment and cleaning up		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		
		Use only in well-ventilated areas.	
		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	.2 Conditions for safe storage, including 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. Protect from atmospheric moisture and water. Store in a dark place. Recommended storage temperature: 5 - 25 °C	
7.3	Specific end use(s)		
		See product use, SECTION 1.2	



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SECTION 8: Exposure controls / personal protection

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/m3, HSE, NIOSH, OSHA

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. 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	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1 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 not determined **Upper explosion limit** not determined **Oxidizing properties** not determined Vapour pressure/gas pressure [kPa] not determined Density [g/ml] 1,52 - 1,68 (23°C / 73,4°F) Bulk density [kg/m³] not applicable Solubility in water insoluble Partition coefficient [n-octanol/water] not determined Viscosity not determined Relative vapour density determined not determined in air **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.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

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.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product ATE-mix, oral, Rat: 2000 - 5000 mg/kg.

Range [%]	Substance
10 - <20	Ethylene dimethacrylate, CAS: 97-90-5
	LD50, oral, Rat: 3300 mg/kg (RTECS).
1 - <10	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.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	Sensitizing.
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	
	The product was classified on the basis of the calculation procedure of the preparation directive. Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
10 - <20	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).
1 - <10	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.

12.2 Persistence and degradability

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



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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 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. 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

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 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



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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

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		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)		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 %	
15.2 Chemical safety assessment			
		not applicable	
SECTION 16: Other information			

16.1 Hazard statements (SECTION 3)

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

H318 Causes serious eye damage.

- H300 Fatal if swallowed.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.



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16.2 Abbreviations and acronyms:		
	ADR = Accord européen relatif au transport international des marchandises Dangereuses pa	
	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	
16.3 Other information		
Classification procedure	STOT SE 3: H335 May cause respiratory irritation. (Calculation method) Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)	
Modified position	SECTION 3 been added: Quartz (< 10µm)	
	SECTION 2 been added: The product is classified and required to be labelled in accordance with EC-Directives	
	SECTION 3 been added: The quartz in this preparation is not available on foreseeable use.	
	SECTION 4 been added: Take off contaminated clothing and wash before reuse.	
	SECTION 4 deleted: Change soaked clothing immediately.	
	SECTION 5 deleted: Risk of formation of toxic pyrolysis products.	
	SECTION 5 been added: In the event of fire the following can be released:	
	SECTION 7 been added: Take off contaminated clothing and wash before reuse.	
	SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.	
	SECTION 8 deleted: See SECTION 6+7.	
	SECTION 16 deleted: Observe employment restrictions for mothers-to-be and nursing mothers.	
	SECTION 16 been added: Calculation method	
	Copyright: Chemiebüro®	



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SEC	TION 1: Identification of the sub	stance/mixture and of the company/undertaking			
.1	1 Product identifier				
••		ResiFIX Vinylester VYSF, Comp. B			
.2	Relevant identified uses of the	substance or mixture and uses advised against			
.2.1	2.1 Relevant uses				
		Adhesive mortar for fastening to concrete elements B-Component (Hardener)			
· ·	2 Uses advised against				
.2.4	2 USes advised against	None known.			
.3	Details of the supplier of the sa	afety 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			
	-				
.4	Emergency telephone number				
	Advisory body	+49 (0)89-19240 (24h) (english)			
SEC	ECTION 2: Hazards identification				
.1	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	\wedge			
	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 [%]	Substance		
1 - <20	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	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 inhale explosion and/or combustion gases.		
		Use self-contained breathing apparatus. Fire residues must be disposed of in accordance within the local regulations.		
SEC	TION 6: Accidental release measu			
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			
		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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SECTION 8: Exposure controls / personal protection

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 ³ , HSE, NIOSH, OSHA
1 - <20	Glycerol
	CAS: 56-81-5, EINECS/ELINCS: 200-289-5
	Long-term exposure: 10 mg/m ³ , (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 ³

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 ³ .
	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 ³ .
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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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

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

SECTION 15: Regulatory information		
15.1	15.1 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	Observe employment restrictions for young people.
	- VOC (1999/13/CE)	0 %
15.2	Chemical safety assessment	
		not applicable

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.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H241 Heating may cause a fire or explosion.



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16.2 Abbreviations and acronyms:	
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 Minimum Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = 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 Maritime Code for Dangerous Goods IUCLID = International Maritime Code for Dangerous Goods IUCLID = 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®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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