

according to Regulation (EC) No 1907/2006

## VMU Plus, Comp. A

+49 (0)89 19240 (German and English)

Revision date: 25.10.2018

Product code: SDS30

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

### **1.1. Product identifier**

VMU Plus, Comp. A

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Use of the substance/mixture

Adhesive mortar for fastening elements A-component (resin)

### Uses advised against

no restriction

### 1.3. Details of the supplier of the safety data sheet

Company name: Street: Place: Telephone: e-mail: e-mail (Contact person): Internet:

Sikla GmbH In der Lache 17 D-78056 VS-Schwenningen +49(0)7720 948 0 Telefax:+49(0)7720 948 337 info@sikla.de info@sikla.de www.sikla.de

### 1.4. Emergency telephone number:

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

Hazard categories: Respiratory or skin sensitisation: Skin Sens. 1 Specific target organ toxicity - single exposure: STOT SE 3 Hazard Statements: May cause an allergic skin reaction. May cause respiratory irritation.

### 2.2. Label elements

### Regulation (EC) No. 1272/2008

### Hazard components for labelling

Ethylene dimethacrylate; Methacrylic acid, monoester with propane-1,2-diol Warning

Signal word:

### **Pictograms:**



### Hazard statements

H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.

### Precautionary statements

looudlionaly old	
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international



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regulation.

### 2.3. Other hazards

No information available.

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

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Reg	ulation (EC) No. 1272/2008	[CLP]	
97-90-5	Ethylene dimethacrylate			10 - < 15 %
	202-617-2	607-114-00-5	01-2119965172-38	
	Skin Sens. 1, STOT SE 3; H317	7 H335		
27813-02-1	Methacrylic acid, monoester wit	h propane-1,2-diol		5 - < 10 %
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319	H317		
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol			< 1 %
	254-075-1		01-2119980937-17	
	Acute Tox. 2, Eye Irrit. 2, Aquati	c Chronic 3; H300 H319 H4	412	
6846-50-0	1-IsopropyI-2,2-dimethyltrimethy	ylene Diisobutyrate		< 1 %
	229-934-9		01-2119451093-47	
	Repr. 2, Aquatic Chronic 3; H36	51d H412		
	and EUU statements: see see	1		•

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

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

Take off immediately all contaminated clothing and wash it before reuse.

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

### After ingestion

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

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

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media



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### Suitable extinguishing media

Extinguishing powder Water spray jet Carbon dioxide (CO2).

## Unsuitable extinguishing media

Full water jet Foam.

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

Pyrolysis products, toxic Carbon monoxide

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Use only outdoors or in a well-ventilated area. When using do not eat, drink or smoke. Wash hands before breaks and after work.

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place.

### Advice on storage compatibility

Do not use for products which come into contact with the food stuffs.

### Further information on storage conditions

storage temperature : 5-25°C

### 7.3. Specific end use(s)

Adhesive mortar for fastening elements A-component (resin)



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### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol			
Worker DNE	L, long-term	inhalation	systemic	14,7 mg/m³
Worker DNE	L, long-term	dermal	systemic	4,2 mg/kg bw/day
Consumer D	NEL, long-term	inhalation	systemic	8,8 mg/m³
Consumer D	NEL, long-term	dermal	systemic	2,5 mg/kg bw/day
Consumer D	NEL, long-term	oral	systemic	2,5 mg/kg bw/day
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol			
Worker DNE	L, long-term	inhalation	systemic	2 mg/m³
Worker DNE	L, long-term	dermal	systemic	0,6 mg/kg bw/day
PNEC value	es			

CAS No	Substance	
Environmen	tal compartment	Value
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	
Freshwater		0,904 mg/l
Marine wate	r	0,904 mg/l
Freshwater	sediment	6,28 mg/kg
Marine sedi	ment	6,28 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	10 mg/l
Soil		0,727 mg/kg
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol	
Freshwater		0,017 mg/l
Marine wate	r	0,0017 mg/l
Freshwater	sediment	0,0782 mg/kg
Marine sedi	ment	0,00782 mg/kg
Micro-organ	isms in sewage treatment plants (STP)	199,5 mg/l
Soil		0,005 mg/kg
6846-50-0	1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate	
Freshwater		0,014 mg/l
Marine wate	r	,0014 mg/l
Freshwater	sediment	1,15 mg/kg

### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls



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### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

### Eye/face protection

Wear eye protection/face protection. Safety goggles with side shields are recommended.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wearing time with occasional contact (splashes): 0,4mm NBR (Nitrile rubber) >480min (EN374) Wearing time with permanent contact 0,5mm NBR (Nitrile rubber) >480min (EN374)

#### Skin protection

Wear suitable protective clothing.

### **Respiratory protection**

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In case of inadequate ventilation wear respiratory protection. Wear filter mask type A1 (organic vapors).

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

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour:	Paste light beige	
pH-Value:	3 3 -	not determined
Changes in the physical state		
Melting point:		not determined
Initial boiling point and boiling range:		not determined
Flash point:		not applicable
Flammability		
Solid:		not determined
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Auto-ignition temperature		
Solid:		not determined
Gas:		not applicable
Decomposition temperature:		not determined
Oxidizing properties Not oxidising.		
Vapour pressure:		not determined



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Density (at 20 °C):	1,71 g/cm <sup>3</sup>	
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Solubility in other solvents not determined		
Partition coefficient:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
9.2. Other information		
Solid content:	not determined	
SECTION 10: Stability and reacti	vity	

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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

### 11.1. Information on toxicological effects

#### Acute toxicity

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
27813-02-1	Methacrylic acid, mono	Methacrylic acid, monoester with propane-1,2-diol				
	oral	LD50 mg/kg	11200	Rat		
	dermal	LD50 mg/kg	> 5000	Rabbit		
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol					
	oral	LD50 mg/kg	27,5	Rat		
	dermal	LD50 mg/kg	>2000			
6846-50-0	1-Isopropyl-2,2-dimeth	yltrimethyle	ne Diisobu	tyrate		
	oral	LD50 mg/kg	3200	Rat		
	dermal	LD50 mg/kg	18900	Guinea pig		



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### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **Further information**

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.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol						
	Acute fish toxicity	LC50	379 mg/l	96 h			
	Acute algae toxicity	ErC50 mg/l	>97,2	72 h			
	Acute crustacea toxicity	EC50 mg/l	>143	48 h			
	Algea toxicity	NOEC mg/l	>97,2				
	Crustacea toxicity	NOEC mg/l	45,2	21 d			
6846-50-0	1-Isopropyl-2,2-dimethyltrimethylene Diisobutyrate						
	Acute fish toxicity	LC50 mg/l	1,55		Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 mg/l	1,46		Daphnia magna (Big water flea)		

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol				
	OECD 310	81%	28		

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol	2,1

#### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

### The product has not been tested.

### 12.6. Other adverse effects

No information available.

### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.



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### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### Waste disposal number of used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

### 14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Inland waterways transport (ADN)

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14.1. UN number:
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14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Marine transport (IMDG)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

### 14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR)

#### 14.1. UN number:

- 14.2. UN proper shipping name:
- 14.3. Transport hazard class(es):
- 14.4. Packing group:

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

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

not applicable

### **SECTION 15: Regulatory information**

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

#### EU regulatory information

### Additional information

VOC content: 6,9 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

#### National regulatory information

Employment restrictions:

Water contaminating class (D):

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

1 - slightly water contaminating

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 2,8.

### Abbreviations and acronyms

ADN: Accord européen relativ au transport international des marchandises Dangereuses par voie de Navigation

(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Oragnisation for Economic Co-operation and Development

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations

Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound



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Acute Tox. 2: Acute toxicity, Category 2

Aquatic Chronic 3: Long-term aquatic hazard, Category 3

Eye Irrit. 2: Serious eye damage/eye irritation, Category 2

Skin Sens. 1: Skin sensitilization, Category 1

STOT SE 3: Specific target organ toxicity (single exposure), Category 3

### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure		
Skin Sens. 1; H317	Calculation method		
STOT SE 3; H335	Calculation method		

#### Relevant H and EUH statements (number and full text)

H300	Fatal if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

#### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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



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

### 1.1. Product identifier

VMU Plus, Comp. B

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### Use of the substance/mixture

compound mortar B-component (hardener)

### Uses advised against

no restriction

### 1.3. Details of the supplier of the safety data sheet

Company name:	Sikla GmbH	
Street:	In der Lache 17	
Place:	D-78056 VS-Schwenningen	
Telephone:	+49(0)7720 948 0	Telefax:+49(0)7720 948 337
e-mail:	info@sikla.de	
e-mail (Contact person):	info@sikla.de	
Internet:	www.sikla.de	
1.4. Emergency telephone	+49 (0)89 19240 (German and English)	
number:		

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

Hazard categories: Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Hazard Statements: Causes serious eye irritation. May cause an allergic skin reaction.

### 2.2. Label elements

### Regulation (EC) No. 1272/2008

### Hazard components for labelling Dibenzoyl peroxide

Signal word: Warning

**Pictograms:** 



### Hazard statements

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

### Precautionary statements

couldionary stat	cilicities
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulation.

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### 2.3. Other hazards

No information available.

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

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name					
	EC No Index No REACH No					
	Classification according to Regulation (EC) No. 1272/2008 [CLP]					
94-36-0	) Dibenzoyl peroxide					
	202-327-6 617-008-00-0 01-2119511472-50					
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410					

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

### **Further Information**

The product has been tested for aquatic toxicity. The tests show no need for classification of the product as toxic and harmful to aquatic life. Test reports are available.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

Change contaminated, saturated clothing.

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

### After ingestion

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

### **4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

meat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Extinguishing powder Water spray jet

### Unsuitable extinguishing media

Full water jet Foam.



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

Pyrolysis products, toxic Carbon monoxide

### 5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Take up mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Use only outdoors or in a well-ventilated area. When using do not eat, drink or smoke. Use protective skin cream before handling the product.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep/Store only in original container.

### Advice on storage compatibility

Do not use for products which come into contact with the food stuffs. Store in a well-ventilated place. Keep cool.

#### Further information on storage conditions

Keep container tightly closed in a cool place. storage temperature 5-25°C

### 7.3. Specific end use(s)

see section 1.2

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters



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### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

### **DNEL/DMEL values**

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
94-36-0	Dibenzoyl peroxide						
Consumer DNEL, long-term oral systemic 2 mg/kg b							
Worker DNEL, long-term		dermal	systemic	13,3 mg/kg bw/day			
Worker DNE	EL, long-term	inhalation	systemic	39 mg/m³			

#### **PNEC** values

CAS No	Substance					
Environmenta	Environmental compartment Va					
94-36-0	94-36-0 Dibenzoyl peroxide					
Freshwater 0,000						
Marine water 0,00002						
Freshwater se	0,013 mg/kg					
Marine sedim	0,001 mg/kg					

### 8.2. Exposure controls



### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

#### Eye/face protection

Suitable eye protection:Wear eye/face protection.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wearing time with occasional contact (splashes): 0,4mm NBR (Nitrile rubber) >480min (EN374) Wearing time with permanent contact 0,5mm NBR (Nitrile rubber) >480min (EN374)

### Skin protection

Wear suitable protective clothing.

### **Respiratory protection**

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In case of inadequate ventilation wear respiratory protection. Wear filter mask type A1 (organic vapors).



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

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9.1. Information on basic physical and	chemical properties
<b>j</b> = = = = = = = = = = = = = = = = = = =	Paste
	black
	characteristic
pH-Value:	not applicable
Changes in the physical state	
Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	not applicable
Flammability	
Solid:	not determined
Gas:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature	
Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined
Oxidizing properties	
Not oxidising. Available oxygen content (%) < 1%	
no classification	
Vapour pressure:	not determined
Density (at 20 °C):	1,59 g/cm³
Water solubility:	The study does not need to be conducted
	because the substance is known to be
Colubility in other columns	insoluble in water.
Solubility in other solvents not determined	
Partition coefficient:	not determined
Vapour density:	not determined
Evaporation rate:	not determined
9.2. Other information	
Solid content:	not determined
SECTION 10: Stability and reactivity	/

### 10.1. Reactivity

see section 10.3

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Violent reaction with: Oxidising agent



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### 10.4. Conditions to avoid

see section 7.2

### 10.5. Incompatible materials Oxidising agent, strong

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

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

### 11.1. Information on toxicological effects

### Acute toxicity

CAS No	Chemical name						
	Exposure route Dose Species Source Method						
94-36-0	Dibenzoyl peroxide						
	oral	LD50 >5000 mg/kg	Rat				

### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.

OECD 201 (Desmodesmus subspicatus ) IC10: (0 - 72 h) = 30 mg/l IC50: (0 - 72 h) = 150 mg/l

OECD 202 (Daphnia magna) EC0/NOEC (48h) = 100 mg/l EC50 (48h) = >500 mg/l EC100 (48h) = >>500 mg/l

OECD 203 (Danio rerio) LC0/NOEC : 250 mg/l LC50 : > 500 mg/l LC100 : >> 500 mg/l

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method	
94-36-0	Dibenzoyl peroxide							
	Acute fish toxicity	LC50 mg/l	0,0602		Oncorhynchus mykiss (Rainbow trout)	OECD 203		
	Acute algae toxicity	ErC50 mg/l	0,0711		Pseudokirchneriella subcapitata	OECD 201		
	Acute crustacea toxicity	EC50	0,11 mg/l		Daphnia magna (Big water flea)	OECD 202		
	Algea toxicity	NOEC mg/l	0,02		Pseudokirchneriella subcapitata	OECD 201		
	Crustacea toxicity	NOEC mg/l	0,001		Daphnia magna (Big water flea)	OECD 211		
	Acute bacteria toxicity	(35 mg/l)		0,5 h		OECD 209		

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### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
94-36-0	Dibenzoyl peroxide						
	OECD 301D	71%	28				
	Readily biodegradable (according to OECD criteria).						

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	Dibenzoyl peroxide	3,2

#### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

### Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### Waste disposal number of used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

### Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.



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## **SECTION 14: Transport information**

Land transport (ADR/RID)				
14.1. UN number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Inland waterways transport (ADN)				
14.1. UN number:	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Marine transport (IMDG)				
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
Air transport (ICAO-TI/IATA-DGR)				
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.			
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.			
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
14.4. Packing group:	No dangerous good in sense of this transport regulation.			
14.5. Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	no			
14.6. Special precautions for user				
No information available.				
14.7. Transport in bulk according to An	nex II of Marpol and the IBC Code			
not applicable				
SECTION 15: Regulatory information				
15.1. Safety, health and environmental	regulations/legislation specific for the substance or mixture			
EU regulatory information				
Additional information				
VOC content: 4,3 % (DIN EN ISO 1	1890-2)			
To follow: 850/2004/EC , 79/117/EE	C 680/2008/EC			
	C, 669/2006/EC			
National regulatory information				
Employment restrictions:	Observe restrictions to employment for juvenils according to the work protection guideline' (94/33/EC).			
Water contaminating class (D):	2 - clearly water contaminating			
15.2. Chemical safety assessment				
Chemical safety assessments for s	ubstances in this mixture were not carried out.			

### **SECTION 16: Other information**

### Changes

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according to Regulation (EC) No 1907/2006

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This data sheet contains changes from the previous version in section(s): 2,8.

### Abbreviations and acronyms

ADN: Accord européen relativ au transport international des marchandises Dangereuses par voie de Navigation (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service CLP: Classification, Labeling and Packaging DMEL: Derived Minimal Effect level **DNEL: Derived No Effect Level** EC50: Effective concentration, 50% IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA) ICAO: International Civil Aviation Organization IC50: Inhibitory concentration, 50% IMDG: International Maritime Code for Dangerous Goods LC50: Lethal concentration, 50% LD50: Lethal dose, 50% NOEC: No Observed Effect Concentration OECD: Oragnisation for Economic Co-operation and Development PBT: persistent, bioaccumulative and toxic vPvB: very persistent and very bioaccumulative PNEC: Predicted No Effect Concentration REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail) VOC: Volatile organic compound Aquatic Chronic 3: Long-term aquatic hazard, Category 3 Acute Tox, 2: Acute toxicity, Category 2 Skin Irrit. 2: Serious eve damage/eve irritation, Category 2 Skin Sens. 1: Skin sensitilization, Category 1 STOT SE 3: Specific target organ toxicity (single exposure), Category 3 Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP] Classification Classification procedure

Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method

### Relevant H and EUH statements (number and full text)

H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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