

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 20.08.2018

**VM-PY, Comp. A**

Product code: SDS21

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

VM-PY, 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:	MKT Metall-Kunststoff-Technik GmbH & Co. KG	
Street:	Auf dem Immel 2	
Place:	67685 Weilerbach	
Telephone:	+49(0)6374-91 16-0	Telefax: +49(0)6374-91 16-60
e-mail:	info@mkt.de	
Internet:	www.mkt.de	

**1.4. Emergency telephone number:**

+49 (0) 89-19240 (24h)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Reproductive toxicity: Repr. 2

Specific target organ toxicity - single exposure: STOT SE 3

Specific target organ toxicity - repeated exposure: STOT RE 1

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

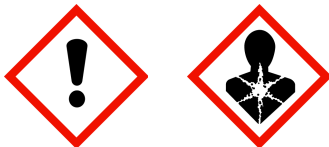
Suspected of damaging the unborn child.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Styrene

**Signal word:** Danger**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

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### Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

### Special labelling of certain mixtures

EUH208	Contains 1,4-naphthoquinone. May produce an allergic reaction.
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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			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
100-42-5	Styrene			20 - < 25 %
	202-851-5	601-026-00-0	01-2119457861-32	
	Flam. Liq. 3, Repr. 2, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 3; H226 H361d H332 H315 H319 H335 H372 H304 H412			
121-69-7	N,N-dimethylaniline			< 1 %
	204-493-5	612-016-00-0	01-2119935241-47	
	Carc. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Aquatic Chronic 2; H351 H331 H311 H301 H411			
130-15-4	1,4-naphthoquinone			< 0.1 %
	204-977-6		01-2120760462-57	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1C, Eye Irrit. 2, Skin Sens. 1A, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H319 H317 H335 H400 H410			

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

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

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

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam.  
Extinguishing powder  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>).

**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.

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#### 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)

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
121-69-7	N,N-Dimethylaniline	5	25		TWA (8 h)	WEL
		10	50		STEL (15 min)	WEL
100-42-5	Styrene	100	430		TWA (8 h)	WEL
		250	1080		STEL (15 min)	WEL

#### 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

Wear eye protection/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

In case of inadequate ventilation wear respiratory protection.

### SECTION 9: Physical and chemical properties

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

Physical state:

Paste

Colour:

white

pH-Value:

not determined

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**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
Density (at 20 °C):	1,74 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
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**SECTION 10: Stability and reactivity****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**

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#### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
100-42-5	Styrene				
	oral	LD50 2650 mg/kg	Rat	GESTIS	
	dermal	LD50 > 2000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 12 mg/l	Rat	GESTIS	
	inhalation aerosol	ATE 1,5 mg/l			
121-69-7	N,N-dimethylaniline				
	oral	LD50 951 mg/kg	Rat		
	dermal	LD50 1700 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 > 5,1 mg/l	Rat		
	inhalation aerosol	ATE 0,5 mg/l			
130-15-4	1,4-naphthoquinone				
	oral	LD50 190 mg/kg	Rat		
	dermal	LD50 202 mg/kg	Rat		
	inhalation vapour	ATE 0,5 mg/l			
	inhalation aerosol	LC50 0,046 mg/l	Rat		

#### 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.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
100-42-5	Styrene					
	Acute fish toxicity	LC50 mg/l	4,02	96 h	GESTIS	
	Acute algae toxicity	ErC50	1,4 mg/l	72 h	GESTIS	
	Acute crustacea toxicity	EC50	4,7 mg/l	48 h	GESTIS	
	Crustacea toxicity	NOEC mg/l	1,01	21 d	GESTIS	
121-69-7	N,N-dimethylaniline					
	Acute fish toxicity	LC50 mg/l	65,6	96 h		
	Acute algae toxicity	ErC50	340 mg/l	72 h		
	Acute crustacea toxicity	EC50	5 mg/l	48 h		
130-15-4	1,4-naphthoquinone					
	Algae toxicity	NOEC mg/l	0,011			

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
100-42-5	Styrene	3,05
130-15-4	1,4-naphthoquinone	1,8

#### 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

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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:** 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 these transport regulations.  
**14.2. UN proper shipping name:** Switzerland  
**14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.  
**14.4. Packing group:** No dangerous good in sense of these transport regulations.

**Marine transport (IMDG)**

**14.1. UN number:** No dangerous good in sense of these transport regulations.  
**14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.  
**14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** No dangerous good in sense of these transport regulations.  
**14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.  
**14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.

**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: 11,1 % (DIN EN ISO 11890-2)

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



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#### National regulatory information

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

Water contaminating class (D): 2 - clearly water contaminating

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

### SECTION 16: Other information

#### Abbreviations and acronyms

ADN: Accord européen relatif 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)

ATE: Acute Toxicity Estimates

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)

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods Code

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Marpol: International convention for the prevention of pollution from Ships (Marine Pollutant)

NOEC: No Observed Effect Concentration

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 des marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

Acute Tox. 2: Acute toxicity, Category 2

Acute Tox. 3: Acute toxicity, Category 3

Acute Tox. 4: Acute toxicity, Category 4

Aquatic Chronic 1: Long-term aquatic hazard, Category 1

Aquatic Chronic 2: Long-term aquatic hazard, Category 2

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

Asp. Tox. 1: Aspiration hazard, Category 1

Carc. 2: Carcinogenicity, Category 2

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

Flam. Liq. 3: Flammable liquid, Category 3

Repr. 2: Reproductive toxicity, Category 2

Skin Corr. 1C: Skin corrosion/irritation, Category 1C

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

Skin Sens. 1A: Skin sensitization, Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure), Category 1

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

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

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Repr. 2; H361d	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 1; H372	Calculation method

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

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains 1,4-naphthoquinone. May produce an allergic reaction.

**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

VM-PY, 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:	MKT Metall-Kunststoff-Technik GmbH & Co. KG	
Street:	Auf dem Immel 2	
Place:	67685 Weilerbach	
Telephone:	+49(0)6374-91 16-0	Telefax: +49(0)6374-91 16-60
e-mail:	info@mkt.de	
Internet:	www.mkt.de	

### 1.4. Emergency telephone number:

+49 (0) 89-19240 (24h)

## 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

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.

**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 Regulation (EC) No. 1272/2008 [CLP]			
94-36-0	Dibenzoyl peroxide			10 - < 15 %
	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.

**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/m <sup>3</sup>	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
94-36-0	Dibenzoyl peroxide			
Consumer DNEL, long-term		oral	systemic	2 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	13,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	39 mg/m <sup>3</sup>

### PNEC values

CAS No	Substance	Value
94-36-0	Dibenzoyl peroxide	
Freshwater		0,00002 mg/l
Marine water		0,000002 mg/l
Freshwater sediment		0,013 mg/kg
Marine sediment		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

In case of inadequate ventilation wear respiratory protection.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	Paste	
Colour:	black	
Odour:	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/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
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**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) = &gt;500 mg/l

EC100 (48h) = &gt;&gt;500 mg/l

OECD 203 (Danio rerio)

LC0/NOEC : 250 mg/l

LC50 : &gt; 500 mg/l

LC100 : &gt;&gt; 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	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203	
	Acute algae toxicity	ErC50 mg/l 0,0711	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50 0,11 mg/l	48 h	Daphnia magna (Big water flea)	OECD 202	
	Algae toxicity	NOEC mg/l 0,02	3 d	Pseudokirchneriella subcapitata	OECD 201	
	Crustacea toxicity	NOEC mg/l 0,001	21 d	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.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	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 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: 4,3 % (DIN EN ISO 11890-2)

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

**National regulatory information**

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

Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

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

**Abbreviations and acronyms**

ADN: Accord européen relatif 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: Organisation 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 eye damage/eye irritation, Category 2  
Skin Sens. 1: Skin sensitization, 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.

**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.)*