

## Safety Data Sheet according to EC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

## MKT Chemical Anchor Capsule V-P M8, M10

#### Use of the substance/preparation

installation material

#### Company/undertaking identification

MKT Metall-Kunststoff-Technik GmbH & Co. KG, Auf dem Immel 2, D-67685 Weilerbach

Telephone 0 63 74 / 91 16 - 0, Fax 0 63 74 / 91 16 60

Internet: www.mkt-duebel.de E-Mail: mkt@mkt-duebel.de

#### Emergency telephone / Office for advice

#### Advisory office in case of poisoning:

Tel.: +49 89 / 19240

#### Telephone number of the company in case of emergencies:

Tel. --

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
Styrene	1 -< 12,5	Xn/Xi	10-20-36/38	202-851-5
Dibenzoyl peroxide	1 -< 20	E/Xi	2-36-43	202-327-6
1,1'-(p-Tolylimino)dipropan-2-ol	0,1 -< 1	T	25-36-52-53	254-075-1

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

Product is flammable

May cause sensitization by skin contact.

#### 3.2 To the environment

See point 12.

### 4. First aid measures

#### 4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

#### 4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### 4.4 Ingestion

Typically no exposure pathway.

Call doctor immediately - have Data Sheet available.

#### 4.5 Special resources necessary for first aid

Indications for the physician:

Symptomatic treatment

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media

Water jet spray

Foam

Extinction powder

Cool container at risk with water.

## 5.2 Extinguishing media which must not be used for safety reasons

High volume water jet

## 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

## 5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

## 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

### 6.2 Environmental measures

If leakage occurs, dam up.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

## 7. Handling and storage

### 7.1 Handling

#### Tips for safe handling:

See point 6.1

Avoid shock and friction.

Keep away from sources of ignition - Do not smoke.

Wash hands before breaks and at end of work.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

General hygiene measures for the handling of chemicals are applicable.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Store products only unopened, in original packing.

Not to be stored in gangways or stair wells.

#### Special storage conditions:

See point 10.2

Protect from direct sunlight and warming.

Store cool

## 8. Exposure controls/personal protection

(GB) Chemical Name	Styrene		
WEL-TWA:	100 ppm (430 mg/m <sup>3</sup> )	WEL-STEL:	250 ppm (1080 mg/m <sup>3</sup> )
BMGV:	---	Other information:	---
(GB) Chemical Name	Dibenzoyl peroxide		
WEL-TWA:	5 mg/m <sup>3</sup>	WEL-STEL:	---
BMGV:	---	Other information:	---
(GB) Chemical Name	Quartz		
WEL-TWA:	0,1 mg/m <sup>3</sup> (silica, respirable, crystalline)	WEL-STEL:	---
BMGV:	---	Other information:	---

Chemical Name		Dicyclohexyl phthalate	
WEL-TWA:	5 mg/m <sup>3</sup>	WEL-STEL:	---
BMGV:	---	Other information:	---

- WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Respiratory protection:

Normally not necessary.

Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Protective gloves in butyl rubber (EN 374).

Protective nitrile gloves (EN 374)

Protective Neopren gloves (EN 374).

Protective hand cream recommended.

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Kapsel
Colour:	n.a.
Odour:	n.a.
pH-value undiluted:	n.a.
Boiling point/range (°C):	~ 145 *
Melting point/range (°C):	n.av.
Flash point (°C):	34, Resin
Flammability (solid/gas):	n.c.
Ignition temperature:	490°C *
Oxidising properties:	No
Minimum limit of explosion:	1,1Vol% *
Maximum limit of explosion:	8,0 Vol% *
Solubility in water:	Insoluble
Viscosity:	n.c.
* Styrene	

## 10. Stability and reactivity

### Conditions to avoid

See point 7

Heating, open flame, ignition sources

Polymerisation possible

### Materials to avoid

See point 7

Water

Acids

Bases

### Hazardous decomposition products

See point 5.3

None known

## 11. Toxicological information

**Acute toxicity and immediate effects**

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

**Delayed and chronic effects**

Sensitization:	Yes (skin contact)
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

**Further information**

Classification according to calculation procedure.

**12. Ecological information**

Water hazard class (Germany):	2
Self classification:	Yes (Vw/vs)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	
According to the recipe, contains no AOX.	
Aquatic toxicity:	
Toxicity to bacteria:	
EC0 72 mg/l/16h *	
Toxicity to fish:	
LC50 Leuciscus idus 17-66 mg/l/48h *	
Toxicity to daphnia:	
EC50 182 mg/l/24h *	
Ecological toxicity:	n.av.
* Styrene	

**13. Disposal considerations****13.1. for the material / preparation / residue**

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

08 04 11 adhesive and sealant sludges containing organic solvents or other dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

**13.2 for contaminated packing material**

See point 13.1

Pay attention to local and national official regulations

Untaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

**14. Transport information****General statements**

UN-Number: 1866

**Road/Rail-transport (ADR/RID)**

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

**Transport by sea**

IMDG-code: n.a. (class/packing-group)

EmS: F-E, S-E

Marine Pollutant: n.a.

**Transport by air**

IATA: 3/III (class/secondary danger/packing-group)

Resin solution

**Additional information:****Minimum amount regulations have not been taken into account.****15. Regulatory information****Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)**

Symbols: Xi

Indications of danger:

Irritant

R-phrases:

10 Flammable.

43 May cause sensitization by skin contact.

S-phrases:

3/7 Keep container tightly closed in a cool place.

35 This material and its container must be disposed of in a safe way.

36/37 Wear suitable protective clothing and gloves.

Additions:

Dibenzoyl peroxide

Observe restrictions:

Yes

Observe youth employment law (German regulation).

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

**16. Other information**

These details refer to the product as it is delivered.

Storage class VCI (Germany):

3 A

Revised points:

n.a.

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

10 Flammable.

20 Harmful by inhalation.

36/38 Irritating to eyes and skin.

2 Risk of explosion by shock, friction, fire or other sources of ignition.

36 Irritating to eyes.

43 May cause sensitization by skin contact.

25 Toxic if swallowed.

52 Harmful to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

**Legend:**

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40  
AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)  
VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: +49 5233 94 17 0, +49 1805-CHEMICAL / +49 180 52 43 642, Fax: +49 5233 94 17 90, +49 180 50 50 455**

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## Safety Data Sheet according to EC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

### MKT Chemical Anchor Capsule V-P M 12, M 14, M 16

#### Use of the substance/preparation

installation material

#### Company/undertaking identification

MKT Metall-Kunststoff-Technik GmbH & Co. KG, Auf dem Immel 2, D-67685 Weilerbach

Telephone 0 63 74 / 91 16 - 0, Fax 0 63 74 / 91 16 60

Internet: www.mkt-duebel.de E-Mail: mkt@mkt-duebel.de

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### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
Styrene	1 -< 12,5	Xn/Xi	10-20-36/38	202-851-5
1,1'-(p-Tolylimino)dipropen-2-ol	0,1 -< 1	T	25-36-52-53	254-075-1

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

Product is flammable

#### 3.2 To the environment

See point 12.

### 4. First aid measures

#### 4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

#### 4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### 4.4 Ingestion

Typically no exposure pathway.

Call doctor immediately - have Data Sheet available.

#### 4.5 Special resources necessary for first aid

Indications for the physician:

Symptomatic treatment

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media

Water jet spray

Foam

Extinguishment powder  
Cool container at risk with water.

**5.2 Extinguishing media which must not be used for safety reasons**

High volume water jet

**5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

**5.4 Special protective equipment for fire-fighters**

Protective respirator with independent air supply

**5.5 Further information**

Dispose of contaminated extinction water according to official regulations.

**6. Accidental release measures**

Refer to point 13. and for personal protection refer to point 8.

**6.1 Personal precautions**

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

**6.2 Environmental measures**

If leakage occurs, dam up.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

**6.3 Methods for cleaning up**

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

**7. Handling and storage**

**7.1 Handling**

**Tips for safe handling:**

See point 6.1

Avoid shock and friction.

Keep away from sources of ignition - Do not smoke.

Wash hands before breaks and at end of work.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

General hygiene measures for the handling of chemicals are applicable.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

**7.2. Storage**

**Requirements for storage rooms and containers:**

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Store products only unopened, in original packaging.

Not to be stored in gangways or stair wells.

**Special storage conditions:**

See point 10.2

Protect from direct sunlight and warming.

Store cool

**8. Exposure controls/personal protection**

Chemical Name	Styrene		
WEL-TWA:	100 ppm (430 mg/m3)	WEL-STEL:	250 ppm (1080 mg/m3)
BMGV:	---	Other information:	---

Chemical Name	Quartz		
WEL-TWA:	0,1 mg/m3 (silica, respirable, crystalline)	WEL-STEL:	---
BMGV:	---	Other information:	---

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through

skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Respiratory protection:

Normally not necessary.

Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Protective gloves in butyl rubber (EN 374).

Protective nitrile gloves (EN 374)

Protective Neopren gloves (EN 374).

Protective hand cream recommended.

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Kapsel
Colour:	n.a.
Odour:	n.a.
pH-value undiluted:	n.a.
Boiling point/range (°C):	~ 145 *
Melting point/range (°C):	n.av.
Flash point (°C):	34, Resin
Flammability (solid/gas):	n.c.
Ignition temperature:	490°C *
Oxidising properties:	No
Minimum limit of explosion:	1,1Vol% *
Maximum limit of explosion:	8,0 Vol% *
Solubility in water:	Insoluble
Viscosity:	n.c.

\* Styrene

## 10. Stability and reactivity

### Conditions to avoid

See point 7

Heating, open flame, ignition sources

Polymerisation possible

### Materials to avoid

See point 7

Water

Acids

Bases

### Hazardous decomposition products

See point 5.3

None known

## 11. Toxicological information

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

### Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

### Further information

No classification according to calculation procedure.

## 12. Ecological information

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	
According to the recipe, contains no AOX.	
Aquatic toxicity:	
Toxicity to bacteria:	
EC0 72 mg/l/16h *	
Toxicity to fish:	
LC50 Leuciscus idus 17-66 mg/l/48h *	
Toxicity to daphnia:	
EC50 182 mg/l/24h *	
Ecological toxicity:	n.av.
* Styrene	

## 13. Disposal considerations

### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

08 04 11 adhesive and sealant sludges containing organic solvents or other dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## 14. Transport information

### General statements

UN-Number: 1866

### Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

### Transport by sea

IMDG-code: n.a. (class/packing-group)

EmS: F-E, S-E

Marine Pollutant: n.a.

### Transport by air

IATA: 3/III (class/secondary danger/packing-group)

Resin solution

### Additional information:

Minimum amount regulations have not been taken into account.

## 15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Directives  
(67/548/EEC and 1999/45/EC)

Symbols:	Not applicable
Indications of danger:	---
R-phrases:	
10 Flammable.	
S-phrases:	
3/7 Keep container tightly closed in a cool place.	
35 This material and its container must be disposed of in a safe way.	
Additions:	
Contains	
Dibenzoyl peroxide	
May produce an allergic reaction.	
Observe restrictions:	Yes
Observe youth employment law (German regulation).	
Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC	

## 16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3 A

Revised points: n.a.

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

10 Flammable.

20 Harmful by inhalation.

36/38 Irritating to eyes and skin.

25 Toxic if swallowed.

36 Irritating to eyes.

52 Harmful to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

## Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference

period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

**Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: +49 5233 94 17 0, +49 1805-CHEMICAL / +49 180 52 43 642, Fax: +49 5233 94 17 90, +49 180 50 50 455**

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## Safety Data Sheet according to EC-Regulation 91/155/EEC

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or preparation

**MKT Chemical Anchor Capsule V-P M 20, M 22, M 24  
MKT V-P 16 IG**

#### Use of the substance/preparation

installation material

#### Company/undertaking identification

MKT Metall-Kunststoff-Technik GmbH & Co. KG, Auf dem Immel 2, D-67685 Weilerbach

Telephone 0 63 74 / 91 16 - 0, Fax 0 63 74 / 91 16 60

Internet: www.mkt-duebel.de E-Mail: mkt@mkt-duebel.de

#### Emergency telephone / Office for advice

##### Advisory office in case of poisoning:

Tel.: +49 89 / 19240

##### Telephone number of the company in case of emergencies:

Tel. --

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
Styrene	1 -< 12,5	Xn/Xi	10-20-36/38	202-851-5
1,1'-(p-Tolylimino)dipropan-2-ol	0,1 -< 1	T	25-36-52-53	254-075-1

For complete wording of the R-phrases, refer to point 16.

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

Product is flammable

#### 3.2 To the environment

See point 12.

### 4. First aid measures

#### 4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### 4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

#### 4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

#### 4.4 Ingestion

Typically no exposure pathway.

Call doctor immediately - have Data Sheet available.

#### 4.5 Special resources necessary for first aid

Indications for the physician:

Symptomatic treatment

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media

Water jet spray

Foam

Extinction powder

Cool container at risk with water.

## 5.2 Extinguishing media which must not be used for safety reasons

High volume water jet

## 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Toxic pyrolysis products.

## 5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

## 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Remove possible causes of ignition - do not smoke.

Avoid contact with eyes or skin.

### 6.2 Environmental measures

If leakage occurs, dam up.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

## 7. Handling and storage

### 7.1 Handling

#### Tips for safe handling:

See point 6.1

Avoid shock and friction.

Keep away from sources of ignition - Do not smoke.

Wash hands before breaks and at end of work.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

General hygiene measures for the handling of chemicals are applicable.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

Store products only unopened, in original packing.

Not to be stored in gangways or stair wells.

#### Special storage conditions:

See point 10.2

Protect from direct sunlight and warming.

Store cool

## 8. Exposure controls/personal protection

<b>Chemical Name</b>	Styrene		
WEL-TWA:	100 ppm (430 mg/m <sup>3</sup> )	WEL-STEL:	250 ppm (1080 mg/m <sup>3</sup> )
BMGV:	---	Other information:	---
<b>Chemical Name</b>	Quartz		
WEL-TWA:	0,1 mg/m <sup>3</sup> (silica, respirable, crystalline)	WEL-STEL:	---
BMGV:	---	Other information:	---
<b>Chemical Name</b>	Calcium sulphate		

WEL-TWA: 10 mg/m <sup>3</sup> (Gypsum/Plaster of Paris, total inhalable dust), 4 mg/m <sup>3</sup> (Gypsum/Plaster of Paris, res. dust)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	

- Ⓢ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Respiratory protection:

Normally not necessary.

Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Protective gloves in butyl rubber (EN 374).

Protective nitrile gloves (EN 374)

Protective Neopren gloves (EN 374).

Protective hand cream recommended.

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 9. Physical and chemical properties

Physical state:	Kapsel
Colour:	n.a.
Odour:	n.a.
pH-value undiluted:	n.a.
Boiling point/range (°C):	~ 145 *
Melting point/range (°C):	n.av.
Flash point (°C):	34, Resin
Flammability (solid/gas):	n.c.
Ignition temperature:	490°C *
Oxidising properties:	No
Minimum limit of explosion:	1,1Vol% *
Maximum limit of explosion:	8,0 Vol% *
Solubility in water:	Insoluble
Viscosity:	n.c.
* Styrene	

## 10. Stability and reactivity

### Conditions to avoid

See point 7

Heating, open flame, ignition sources

Polymerisation possible

### Materials to avoid

See point 7

Water

Acids

Bases

### Hazardous decomposition products

See point 5.3

None known

## 11. Toxicological information

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

### Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

### Further information

No classification according to calculation procedure.

## 12. Ecological information

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	
According to the recipe, contains no AOX.	
Aquatic toxicity:	
Toxicity to bacteria:	
EC0 72 mg/l/16h *	
Toxicity to fish:	
LC50 Leuciscus idus 17-66 mg/l/48h *	
Toxicity to daphnia:	
EC50 182 mg/l/24h *	
Ecological toxicity:	n.av.
* Styrene	

## 13. Disposal considerations

### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

08 04 11 adhesive and sealant sludges containing organic solvents or other dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Untaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## 14. Transport information

### General statements

UN-Number: 1866

### Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

### Transport by sea

IMDG-code: n.a. (class/packing-group)

EmS: F-E, S-E

Marine Pollutant: n.a.

**Transport by air**

IATA: 3/III (class/secondary danger/packing-group)

Resin solution

**Additional information:****Minimum amount regulations have not been taken into account.****15. Regulatory information****Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)**

Symbols: Not applicable

Indications of danger: ---

R-phrases:

10 Flammable.

S-phrases:

3/7 Keep container tightly closed in a cool place.

35 This material and its container must be disposed of in a safe way.

Additions:

Contains

Dibenzoyl peroxide

May produce an allergic reaction.

Observe restrictions: Yes

Observe youth employment law (German regulation).

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

**16. Other information**

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3 A

Revised points: 1

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

10 Flammable.

20 Harmful by inhalation.

36/38 Irritating to eyes and skin.

25 Toxic if swallowed.

36 Irritating to eyes.

52 Harmful to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

**Legend:**

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference

period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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