

Safety Data Sheet according to Regulation (EC) No 1907/2006, Annex II

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

Identification of the substance or preparation:

MKT Chemical Anchor 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

Germany

Phone: +49 (0) 63 74 / 91 16 - 0

Fax: +49 (0) 63 74 / 91 16 - 60

E-mail: mkt@mkt-duebel.de

www.mkt-duebel.de

Emergency telephone / Office for advice:

Advisory office in case of poisoning: +49 (0) 89/19240 (München)

2. Hazards identification

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

To people

See point 11 and 15.

10 Flammable.

43 May cause sensitization by skin contact.

To the environment

See point 12. Not applicable.

3. Composition/information on ingredients

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/O/Xi	3-7-36-43	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.

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
Oxides of nitrogen
Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply. Full protection if necessary.

5.5 Further information

Dispose of contaminated extinction water according to official regulations.
In case of fire and/or explosion do not breathe fumes.

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.

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 stairwells.

Special storage conditions:

See point 10.2

Protect from direct sunlight and warming.

Store cool

8. Exposure controls/personal protection

8.1 Exposure limit values

	Chemical Name	Styrene	Content %: 1-<12,5
WEL-TWA: 100 ppm (430 mg/m ³)		WEL-STEL: 250 ppm (1080 mg/m ³)	---
BMGV: --		Other information: ---	
	Chemical Name	Dibenzoyl peroxide	Content %: 1-<20
WEL-TWA: 5 mg/m ³		WEL-STEL: ---	---
BMGV: ---		Other information: ---	
	Chemical Name	Quartz	Content %:
WEL-TWA: 0,1 mg/m ³ (silica, respirable, crystalline)		WEL-STEL: ---	---
BMGV: ---		Other information: ---	
	Chemical Name	Dicyclohexyl phthalate	Content %:
WEL-TWA: 5 mg/m ³		Spb.-Üf.: ---	---
BMGV: ---		Other information: ---	
BGW: ---		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.

8.2 Exposure controls

8.2.1 Occupational exposure controls

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, longsleeved 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.

8.2.2 Environmental exposure controls

n. av.

9. Physical and chemical properties

Physical state:	Capsule
Colour:	n.a.
Odour:	n.a.
pH-value undiluted:	n.a.
Boiling point/range (°C):	~ 145 *)
Melting point/range (°C):	not detected
Flash point (°C):	34, resin
Flammability (solid, gaseous):	not detected
Ignition temperature:	490°C *)
Oxidising properties:	No
Minimum limit of explosion:	1,1 Vol% *)
Maximum limit of explosion:	8,9 Vol% *)
Water solubility in:	Insoluble
Viscosity:	not detected

*) 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.

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 (VwVwS)
Persistence and degradability:	Rapid photochemical oxidation in the air. * Readily biodegradable. **
Behaviour in sewage plants:	According to the recipe, contains no AOX.
Aquatic toxicity:	
Toxicity to fish:	LC50 Leuciscus idus 17-66 mg/l/48h *
Toxicity to daphnia:	EC50 182 mg/l/24h *
Ecological toxicity:	
Toxicity to bacteria:	EC10 72 mg/l/16h *

* Styrene ** Dibenzoyl peroxide

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:

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

VOC 1999/13/EC: ~10% w/w

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3 A

Revised points: 1-16 (REACH)

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.

3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

7 May cause fire.

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.

Safety Data Sheet according to Regulation (EC) No 1907/2006, Annex II

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

Identification of the substance or preparation:

MKT Chemical Anchor V-P M12, M14, M16

Use of the substance/preparation:

Installation material

Company/undertaking identification:

MKT Metall-Kunststoff-Technik GmbH & Co. KG

Auf dem Immel 2

D-67685 Weilerbach

Germany

Phone: +49 (0) 63 74 / 91 16 - 0

Fax: +49 (0) 63 74 / 91 16 - 60

E-mail: mkt@mkt-duebel.de

www.mkt-duebel.de

Emergency telephone / Office for advice:

Advisory office in case of poisoning: +49 (0) 89/19240 (München)

2. Hazards identification

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

To people

See point 11 and 15.

10 Flammable.

May produce an allergic reaction.

To the environment

See point 12. Not applicable.

3. Composition/information on ingredients

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.

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

Oxides of nitrogen

Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply. Full protection if necessary.

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

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

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.
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 stairwells.

Special storage conditions:

See point 10.2
Protect from direct sunlight and warming.
Store cool

8. Exposure controls/personal protection

8.1 Exposure limit values

	Chemical Name	Styrene	Content %: 1-<12,5
WEL-TWA: 100 ppm (430 mg/m3)		WEL-STEL: 250 ppm (1080 mg/m3)	---
BMGV: --		Other information: ---	
	Chemical Name	Quartz	Content %:
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-terme 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.

8.2 Exposure controls

8.2.1 Occupational exposure controls

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, longsleeved 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.

8.2.2 Environmental exposure controls

n. av.

9. Physical and chemical properties

Physical state:	Capsule
Colour:	n.a.
Odour:	n.a.
pH-value undiluted:	n.a.
Boiling point/range (°C):	~ 145 *)
Melting point/range (°C):	not detected
Flash point (°C):	34, resin
Flammability (solid, gaseous):	not detected
Ignition temperature:	490°C *)
Oxidising properties:	No
Minimum limit of explosion:	1,1 Vol% *)
Maximum limit of explosion:	8,9 Vol% *)
Water solubility in:	Insoluble
Viscosity:	not detected

*) 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.

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:

Classification according to calculation procedure.
May produce an allergic reaction.

12. Ecological information

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	Rapid photochemical oxidation in the air. *
Behaviour in sewage plants:	According to the recipe, contains no AOX.
Aquatic toxicity:	
Toxicity to fish:	LC50 <i>Leuciscus idus</i> 17-66 mg/l/48h *
Toxicity to daphnia:	EC50 182 mg/l/24h *
Ecological toxicity:	
Toxicity to bacteria:	EC10 72 mg/l/16h *

* 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

VOC 1999/13/EC: ~10% w/w

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3 A

Revised points: 1-16 (REACH)

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.

Safety Data Sheet according to Regulation (EC) No 1907/2006, Annex II

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

Identification of the substance or preparation:

MKT Chemical Anchor V-P M20, M24, M30, 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

Germany

Phone: +49 (0) 63 74 / 91 16 - 0

Fax: +49 (0) 63 74 / 91 16 - 60

E-mail: mkt@mkt-duebel.de

www.mkt-duebel.de

Emergency telephone / Office for advice:

Advisory office in case of poisoning: +49 (0) 89/19240 (München)

2. Hazards identification

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

To people

See point 11 and 15.

10 Flammable.

May produce an allergic reaction.

To the environment

See point 12. Not applicable.

3. Composition/information on ingredients

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.

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
Oxides of nitrogen
Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply. Full protection if necessary.

5.5 Further information

Dispose of contaminated extinguishment water according to official regulations.
In case of fire and/or explosion do not breathe fumes.

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 absorbent 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.
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 stairwells.

Special storage conditions:

See point 10.2
Protect from direct sunlight and warming.
Store cool

8. Exposure controls/personal protection

8.1 Exposure limit values

	Chemical Name	Styrene	Content %: 1-<12,5
WEL-TWA: 100 ppm (430 mg/m3)		WEL-STEL: 250 ppm (1080 mg/m3)	---
BMGV: --		Other information: ---	
	Chemical Name	Quartz	Content %:
WEL-TWA: 0,1 mg/m3 (silica, respirable, crystalline)		WEL-STEL: ---	---
BMGV: ---		Other information: ---	
	Chemical Name	Calcium sulphate	Content
WEL-TWA: 10 mg/m3 (Gypsum/Plaster of Paris, total inhalable dust), 10 mg/m3 (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-terme 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.

8.2 Exposure controls

8.2.1 Occupational exposure controls

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, longsleeved 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.

8.2.2 Environmental exposure controls

n. av.

9. Physical and chemical properties

Physical state:	Capsule
Colour:	n.a.
Odour:	n.a.
pH-value undiluted:	n.a.
Boiling point/range (°C):	~ 145 *)
Melting point/range (°C):	not detected
Flash point (°C):	34, resin
Flammability (solid, gaseous):	not detected
Ignition temperature:	490°C *)
Oxidising properties:	No
Minimum limit of explosion:	1,1 Vol% *)
Maximum limit of explosion:	8,9 Vol% *)
Water solubility in:	Insoluble
Viscosity:	not detected

*) 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.

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:

Classification according to calculation procedure.

May produce an allergic reaction.

12. Ecological information

Water hazard class (Germany): 2

Self classification: Yes (VwVwS)

Persistence and degradability: Rapid photochemical oxidation in the air. *

Behaviour in sewage plants: According to the recipe, contains no AOX.

Aquatic toxicity:

Toxicity to fish: LC50 *Leuciscus idus* 17-66 mg/l/48h *

Toxicity to daphnia: EC50 182 mg/l/24h *

Ecological toxicity:

Toxicity to bacteria: EC10 72 mg/l/16h *

* 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

VOC 1999/13/EC: ~10% w/w

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3 A

Revised points: 1-16 (REACH)

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.