

# **EC Safety Data Sheet**

## **Injection Adhesive VMW**

**valid for**  
**Injection Anchor**

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MKT Injection adhesive VMW component A (resin)

MKT Injection adhesive VMW component B (hardener)

## 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 Injection adhesive VMW component A (resin)**

**MKT Injection adhesive VMW component B (hardener)**

#### Use of the substance/preparation

MKT injection system VMW

#### 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-duebs.de](http://www.mkt-duebs.de) E-Mail: [mkt@mkt-duebs.de](mailto:mkt@mkt-duebs.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	CAS	EINECS, ELINGS
A					
N,N-diethylaniline	0,1 -< 1	T/N	23/24/25-33-51-53		202-083-8
Hexamethylene dimethacrylate	10 -< 20	Xi	36/37/38		229-551-7
B					
Dlaenzoyl peroxide	20 - 40	E/Xi	2-36-43		702-327-6
reaction product bisphenol A- (epichlorhydrin), epoxy resin (number average molecular weight <= 700)	0,1 -< 1	Xi/N	36/38-43-51-53		500-033-5
Bisphenol F epoxy resin	0,1 -< 1	Xi/N	36/38-43-51-53		500-006-8 (NLP)
benzyl butyl phthalate	5 - 40	N	61-62-50-53		201-622-7

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.

A

Irritation of the eyes

Irritation of the respiratory tract

Irritation of the skin.

B

Irritation of the eyes

May cause fire.

May cause sensitization by skin contact.

#### 3.2 To the environment

See point 12.

### 4. First aid measures

#### 4.1 Inhalation

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

Remove person from danger area.

Keep Data Sheet available.

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#### 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

Call doctor immediately - have Data Sheet available.

Rinse the mouth thoroughly with water.

If applicable

Give water to drink.

#### 4.5 Special resources necessary for first aid

n.g.

### 5. Fire-fighting measures

#### 5.1 Suitable extinguishing media

Water jet spray

Foam

CO2

Extinguishing powder

#### 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 gases

Explosive gas/air mixtures.

#### 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.

### 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.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

#### 6.2 Environmental measures

Prevent from entering drainage system.

If leakage occurs, dam up.

If accidental entry into drainage system occurs, inform responsible authorities.

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.

Or:

Collect mechanically and dispose of according to point 13.

### 7. Handling and storage

#### 7.1 Handling

##### Tips for safe handling

See point 8.1

Keep away from sources of ignition - Do not smoke.

Ensure good ventilation.

Use working methods according to operating instructions.

Observe directions on label and instructions for use.

#### 7.2. Storage

##### Requirements for storage rooms and containers

A/B

Not to be stored in gangways or stair wells

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Store products only unopened, in original packing.

Do not store with highly flammable, flammable, or self-igniting materials.

Observe regulations for keeping separated.

B

Observe the special regulations for organic peroxides.

Suitable material:

PE

Stainless steel (alloy steel)

### Special storage conditions

See point 10.2

Protect against moisture and store closed.

Store cool

Protect from direct sunlight and warming.

## 8. Exposure controls/personal protection

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

If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Chemical name	content %	OES, MEL, MAK, TRK	BMGV, BAT
A			
N,N-diethylaniline	0,1 -< 1	5 ppm, 31 mg/m <sup>3</sup> (recommendation - VCI (D))	0,3 mg/m <sup>3</sup>
Quartz			
B			
Dibenzoyl peroxide	20 - 40	5 mg/m <sup>3</sup>	
benzyl butyl phthalate	5 - 40	5 mg/m <sup>3</sup>	
Silica, amorphous		5 mg/m <sup>3</sup> (inh.), 2,4 mg/m <sup>3</sup> (res.)	
Dicyclohexyl phthalate		5 mg/m <sup>3</sup>	

### 8.1 Respiratory protection:

Filter A2 P2 (EN 141)

If applicable

Breathing mask with fine-dust filter (EN 143)

If OES-, MEL- or MAK-value is exceeded.

### 8.2 Hand protection:

Safety gloves made of natural rubber latex (EN 374).

Protective plastic gloves (EN 374).

Permeation time (penetration time) in minutes:

A 120, B 480

Safety gloves made of chloroprene (EN 374).

Permeation time (penetration time) in minutes:

A 30, B 480

Protective nitrile gloves (EN 374)

Permeation time (penetration time) in minutes:

A 240, B 480

Suitable are, e.g., safety gloves from KCL GmbH Co., D-36124 Eichenzell, e-mail [vertrieb@kcl.de](mailto:vertrieb@kcl.de) following specifications:

706 Lapren, 720 Camapren, 730 Camatril Velours

### 8.3 Eye protection:

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

### 8.4 Skin protection:

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

According to operation.

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:

A	
Pastelike	
B	
Solid	
Colour:	
A	
Light	
B	
Black	
Odour	Characteristic
pH value undiluted:	n.v.
Boiling point / range (°C):	n.v.
Flash point (°C):	
A	
> 100	
(Particulars of main substances contained)	
B	
n.a.	
Oxidising properties:	
A	
n.v.	
B	
Yes	
Relative density (g/ml):	
A	
Not detected	
B	
1,02	
Solubility in water:	Insoluble

## 10. Stability and reactivity

### 10.1 Conditions to avoid

See point 7

A/B

Protect from humidity.

Heating, open flame, ignition sources

B

Autoccelerated decomposition:

~ > +60°C

### 10.2 Materials to avoid

See point 7

A/B

Avoid contact with oxidizing agents.

Avoid contact with other chemicals.

B

Contact with incompatible substances can result in decomposition at or below the SADT (Self-Accelerating Decomposition Temperature).

14.a Keep away from dirt, rust, alkalis, acids and accelerators.

Heavy metal salts

Amines

### 10.3 Hazardous decomposition products

See point 5.3

## 11. Toxicological information

### 11.1 Acute toxicity and immediate effects

11.1.1 Ingestion, LD50 rat oral (mg/kg):

B

> 5000

Dibenzoyl peroxide

11.1.2 Inhalation, LC50 rat inhal. (mg/l/4h):

A

Irritant

B

> 24,3

Dibenzoyl peroxide

11.1.3 Skin contact, LD50 rat dermal (mg/kg):

k.D.v., Irritant

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11.1.4 Eye contact: Irritant

## 11.2 Delayed and chronic effects

11.2.1 Sensitization:

A

n.d.a.

B

Yes (skin contact)

11.2.2 Carcinogenicity:

n.g.

11.2.3 Mutagenicity:

n.g.

11.2.4 Reproductive toxicity:

A

n.d.a.

B

Rf3, Rc2

benzyl butyl phthalate

11.2.5 Narcosis:

n.g.

## 11.3. Further information

Classification according to calculation procedure.

B

According to TRGS 905, the product is classified as follows (German regulation):

61 May cause harm to the unborn child.

62 Possible risk of impaired fertility.

## 12. Ecological information

Water hazard class (Germany):

2

Self classification:

Yes (VwVwS)

Persistence and degradability:

B

OE50/30min, 35mg/l\*

\* Dibenzoyl peroxide

Behaviour in sewage plants:

Problems not expected when used correctly.

AOX k.D.v.

Aquatic toxicity:

n.v.

Ecological toxicity:

n.v.

## 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.

08 04 00 waste adhesives and sealants containing organic solvents or other dangerous substances

08 04 99 wastes not otherwise specified

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

16 05 08 discarded organic chemicals consisting of or containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

## 14. Transport information

### General statements

B

UN-Number:

3108

Road/Rail-transport (ADR/RID)

Class/packing-group:

5.2/-

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UN 3408 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Classification code:

P+

LQ:

11

Transport by sea

IMDG-code:

5.2/-

(class/packing-group)

EmS:

F-J, S-R

Marine Pollutant:

Yes

ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE, BENZYL BUTYL PHTHALATE)

Transport by air

IATA:

5.2/-

(class/secondary danger/packing-group)

Organic peroxide type E, solid (DIBENZOYL PEROXIDE)

Additional information:

A

Non-dangerous material according to Transport Regulations.



## 15. Regulatory information

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

Symbols:

A

Xi

B

OxXi

Indications of danger:

A

Irritant

B

Oxidizing

Irritant

R-phrases:

A

36/37/38 Irritating to eyes, respiratory system and skin.

B

7 May cause fire.

36 Irritating to eyes.

43 May cause sensitization by skin contact.

S-phrases:

A

(2) Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

37 Wear suitable gloves.

(45) In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

B

37 Keep container tightly closed in a cool place.

14.a Keep away from dirt, rust, alkalis, acids and accelerators.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

50.a Do not mix with accelerators for peroxides or reducing agents.

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

Additions:

A

n.a.

B

Dibenzoyl peroxide

Contains epoxy constituents. See information supplied by the manufacturer.

Observe restrictions:

Yes

Observe youth employment law (German regulation).

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

Observe law on protection of expectant mothers (German regulation).

## 16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany):

A 10 - 13 B 5.2

Revised points:

n.a.

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

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23/24/25 Also toxic by inhalation, in contact with skin and if swallowed.

33 Danger of cumulative effects.

51 Toxic to aquatic organisms.

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

36/37/38 Irritating to eyes, respiratory system and skin.

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

36 Irritating to eyes.

42 May cause sensitization by skin contact.

36/38 Irritating to eyes and skin.

61 May cause harm to the unborn child.

62 Possible risk of impaired fertility.

50 Very toxic to aquatic organisms.

#### Legend:

n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked / OES = Occupational exposure standard

MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value / MAK = Maximum concentration for work place (Germany)

(Germany) / TRK = Technical guidance concentration (Germany) / BAT = Biological tolerance for work place (Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 2 = 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.: 01805-CHEMICAL / 01805-243 642, Fax: 05233-941790**

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