

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 VM-SF component A (resin) MKT injection adhesive VM-SF component B (hardener)

Use of the substance/preparation

MKT injection adhesive VM-SF

Company/undertaking identification

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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
A Hexamethylene dimethacrylate	1 -< 10	Xi	36/37/38	229-551-7
B Dibenzoyl peroxide	10 -< 20	E/Xi	2-36-43	202-327-6
2-ethylhexyl benzoate	1 - 5	---	53	226-641-8
Oxydipropyl dibenzoate	1 -< 2,5	N	51-53	248-258-5

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

3. Hazards identification

3.1 To people

See point 11 and 15.

A

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

B

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

May cause fire.

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.

Keep Data Sheet available.

If the person is unconscious, place in a stable side position and consult a doctor.

Respiratory arrest - Artificial respiration apparatus necessary.

4.2 Eye contact

Remove contact lenses.

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

Protect uninjured eye.

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

Rinse the mouth thoroughly with water.

Never pour anything into the mouth of an unconscious person!

Do not induce vomiting.

Call doctor immediately - have Data Sheet available.

4.5 Special resources necessary for first aid

n.c.

5. Fire-fighting measures

5.1 Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher

Large fire:

Alcohol resistant foam

Water jet spray

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:

A

Oxides of carbon

Toxic gases

B

Oxides of carbon

Toxic pyrolysis products.

Product supports combustion.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

According to size of fire

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.

Avoid build up of dust.

6.2 Environmental measures

Prevent from entering drainage system.

If leakage occurs, dam up.

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

6.3 Methods for cleaning up

Collect mechanically and dispose of according to point 13.

Or:

Collect using absorbant material (e.g. sand, earth) and dispose of according to point 13.

Use no flammable substances.

7. Handling and storage

7.1 Handling

Tips for safe handling:

See point 6.1

A, B

Keep away from sources of ignition - Do not smoke.

Ensure good ventilation.

Avoid inhalation, and contact with eyes or skin.

Use working methods according to operating instructions.

Observe directions on label and instructions for use.

B

Avoid shock and friction.

Take precautions against electrostatic charges.

Once product has been withdrawn it must under no circumstances be poured back into the vessel.

Do not pour remainders back into the storage vessels.

Carefully avoid contamination of the product with foreign substances.

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

Separate storage of protective clothing.

7.2. Storage

Requirements for storage rooms and containers:

Store products only unopened, in original packing.

Not to be stored in gangways or stair wells.

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

Observe regulations for keeping separated.

Observe the special regulations for organic peroxides.

Special storage conditions:

See point 10.2

Store cool

Protect against moisture and store closed.

Protect from direct sunlight and warming.

Keep out of access to unauthorised individuals.

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 WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Chemical Name	Dibenzoyl peroxide		
WEL-TWA: 5 mg/m ³	WEL-STEL: ---		---
BMGV: ---		Other information: ---	
Chemical Name	Quartz		
WEL-TWA: 0,1 mg/m ³ (silica, respirable, crystalline)	WEL-STEL: ---		---
BMGV: ---		Other information: ---	
Chemical Name	Silica, amorphous		
WEL-TWA: 6 mg/m ³ (total inh. dust), 2,4 mg/m ³ (resp. dust)	WEL-STEL: ---		---
BMGV: ---		Other information: ---	
Chemical Name	Glycerine		
WEL-TWA: 10 mg/m ³ (mist)	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.

8.1 Respiratory protection:

If OES or MEL is exceeded.

Filter A2 P2 (EN 141)

8.2 Hand protection:

A

Recommended

Protective plastic gloves (EN 374).

B

Chemical resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

Safety gloves made of butyl (EN 374)

Protective Neopren gloves (EN 374).

Protective Viton gloves (EN 374)

Protective hand cream recommended.

8.3 Eye protection:

With danger of contact with eyes

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

If applicable

Face protection (EN 344)

8.4 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:	Paste
Colour:	
A	
Light	
B	
Black	
Odour:	Characteristic
pH-value undiluted:	n.av.
Boiling point/range (°C):	n.av.
Melting point/range (°C):	n.av.
Flash point (°C):	n.a.
Oxidising properties:	
B	
Yes	
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	n.c.
Density (g/ml):	Not detected
Solubility in water:	Insoluble

10. Stability and reactivity

10.1 Conditions to avoid

See point 7

A

Protect from humidity.

Heating, open flame, ignition sources

B

Protect from humidity.

Heating, open flame, ignition sources

Autoaccelerated decomposition:

T > +60°C

10.2 Materials to avoid

See point 7

A

Avoid contact with other chemicals.

Avoid contact with oxidizing agents.

B

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

Exothermic reaction possible with:

Oxidizing agents

Acids

Bases

Amines

Heavy metal salts

Rust

Accelerators

Radical former (Initiators)

10.3 Hazardous decomposition products

See point 5.3

No decomposition when used as directed.

11. Toxicological information

11.1 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.

11.2 Delayed and chronic effects

Sensitization:

A

n.d.a.

B

Yes (skin contact)

Carcinogenicity:

n.c.

Mutagenicity:

n.c.

Reproductive toxicity:

n.c.

Narcosis:

n.c.

11.3. Further information

A

No classification according to calculation procedure.

The following may occur:

Irritation of the eyes

Irritation of the respiratory tract

Irritation of the skin.

Corneal damage.

B

Classification according to calculation procedure.

with long-term contact:

Dermatitis (skin inflammation)

Ingestion:

Gastrointestinal disturbances

Nausea

Vomiting

12. Ecological information

Water hazard class (Germany):	A 2 B 1
Self classification:	Yes (VwVwS)
Persistence and degradability:	
B	
Readily biodegradable **	
** Dibenzoyl peroxide	
Behaviour in sewage plants:	n.av.
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.

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 09 waste adhesives and sealants containing organic solvents or other dangerous substances

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

14. Transport information

B

General statements

UN-Number: 3108

Road/Rail-transport (ADR/RID)

Class/packing-group: 5.2/-

UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Classification code: P1

LQ: 11



Transport by sea

IMDG-code: 5.2/- (class/packing-group)

EmS: F-J, S-R

Marine Pollutant: n.a.

ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)



Transport by air

IATA: 5.2/-/ (class/secondary danger/packing-group)

Organic peroxide type E, solid (DIBENZOYL PEROXIDE)

Additional information:

Danger code and packing code on request.

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

Not applicable

B

O/Xi

Indications of danger:

A

Not applicable

B

Oxidizing

Irritant

R-phrases:

A

--

B

7 May cause fire.

43 May cause sensitization by skin contact.

S-phrases:

A

--

B

(2) Keep out of the reach of children.

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

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

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

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

(46) If swallowed, seek medical advice immediately and show this container or label.

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

Additions:

A

Safety data sheet available for professional user on request.

B

Dibenzoyl peroxide

Observe restrictions: Yes

Observe youth employment law (German regulation).

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

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

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MKT injection adhesive VM-SF component A (resin)

MKT injection adhesive VM-SF component B (hardener)

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: 1

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

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.

43 May cause sensitization by skin contact.

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

51 Toxic to aquatic organisms.

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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