

Safety Data Sheet according to (EC) No 1907/2006 - ISO 11014-1

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MKT injection adhesive VMZ

SDS no. : 288355

V001.0

Revision: 30.01.2009

printing date: 10.02.2009

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

Trade name:

MKT injection adhesive VMZ, Comp. A

Intended use:

MKT injection system VMZ

Company name:

MKT Metall-Kunststoff-Technik GmbH & Co. KG

Auf dem Immel 2

D-67685

Weilerbach

Phone: +49 (0) 6374/9116-0

Fax-no.: +49 (0) 6374/9116-60

E-Mail: Responsible for the safety data sheet: mkt@mkt-duebel.de

Emergency information:

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

2. Hazards identification

The product is classified as hazardous within the meaning of the valid (EU) preparation directive.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Persons suffering from allergic reactions to acrylates should avoid contact with the product.

3. Composition / information on ingredients

General chemical description:

Resin

Base substances of preparation:

Inorganic fillers

Methacrylates

Declaration of ingredients according to (EC) No 1907/2006:

Hazardous components CAS-No.	EINECS	content	Classification
1,6-Hexanediyl bismethacrylate 6606-59-3	229-551-7	< 10 %	Xi - Irritant; R36/37/38 N - Dangerous for the environment; R51/53
N,N-Diethylaniline 91-66-7	202-088-8	< 0,5 %	T - Toxic; R23/24/25 R33 N - Dangerous for the environment; R51, R53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

4. First aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

5. Fire fighting measures

Suitable extinguishing media:

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

Special protection equipment for firefighters:

Wear self-contained breathing apparatus.
Wear protective equipment.

Hazardous combustion products:

Carbon dioxide., carbon monoxide

Additional information:

Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.

6. Accidental release measures

Personal precautions:

Avoid contact with eyes.
Keep away from sources of ignition.
Ensure adequate ventilation.
Danger of slipping on spilled product.

Environmental precautions:

Do not empty into drains / surface water / ground water.

Clean-up methods:

Remove mechanically.
Dispose of contaminated material as waste according to item 13.

7. Handling and storage

Handling:

Avoid skin and eye contact.
Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

Storage:

Store in sealed original container protected against moisture.
Store in a cool, dry place.
Storage at 5 to 25°C is recommended.
Keep container in a well ventilated place.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

8. Exposure controls / personal protection

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Hand protection:

For shorttime contact (e.g. as protection against splashes) protective gloves made from butyl rubber are recommended according to EN 374.

material thickness > 0.7 mm

Perforation time > 60 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Skin protection:

suitable protective clothing

General protection and hygiene measures:

Wash off any dirt that gets onto the skin with lots of soap and water, skin care.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

9. Physical and chemical properties

General characteristics:

Appearance	Paste pasty light beige
Odor:	Characteristic

Phys./chem. properties:

Density (23 °C (73.4 °F))	1,55 g/cm ³
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	practically insoluble

10. Stability and reactivity

Conditions to avoid:

No decomposition if used according to specifications.

Materials to avoid:

Reaction with oxidants.

Reaction with strong acids.

Hazardous decomposition products:

None known

11. Toxicological information

General toxicological information:

To the best of our knowledge no harmful effects are to be expected if the product is handled and used properly.
Persons suffering from allergic reactions to acrylates should avoid contact with the product.

12. Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

13. Disposal considerations

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

After curing with component B :

Can be added to household waste in small quantities.

The valid EEC waste code numbers are not product-related but are largely source-related. The manufacturer is therefore unable to specify EEC waste codes for the articles or products used in the various sectors. These can be requested from the manufacturer.

Disposal of uncleaned packages:

Only well-emptied containers with dried or cured product residues and without solvent vapors can be recycled.

14. Transport information

General information:

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

15. Regulations - classification and identification

Risk phrases:

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container or label.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R33 Danger of cumulative effects.

R36/37/38 Irritating to eyes, respiratory system and skin.

R51 Toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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

Trade name:

MKT injection adhesive VMZ, Comp. B

Intended use:

MKT injection system VMZ

Company name:

MKT Metall-Kunststoff-Technik GmbH & Co. KG

Auf dem Immel 2

D-67685 Weilerbach

Phone: +49 (0) 6374/9116-0

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E-Mail: Responsible for the safety data sheet: mkt@mkt-duebel.de

Emergency information:

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

2. Hazards identification

The product is classified as hazardous within the meaning of the valid (EU) preparation directive.

Xi - Irritant

R43 May cause sensitization by skin contact.

Persons suffering from allergic reactions to peroxides should avoid contact with the product.

3. Composition / information on ingredients

General chemical description:

hardener component

Base substances of preparation:

Dibenzoyl peroxide

Inorganic fillers

Declaration of ingredients according to (EC) No 1907/2006:

Hazardous components CAS-No.	EINECS	content	Classification
Dibenzoyl peroxide 94-36-0	202-327-6	>= 10 - < 20 %	E - Explosive; R3 O - Oxidizing; R7 Xi - Irritant; R36, R43
Glycerol 56-81-5	200-289-5	>= 1 - <= 10 %	
2-Ethylhexyl benzoate 5444-75-7	226-641-8	>= 1 - < 10 %	R53
Oxydipropyl dibenzoate 27138-31-4	248-258-5	>= 1 - < 2,5 %	N - Dangerous for the environment; R51/53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

4. First aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

5. Fire fighting measures

Suitable extinguishing media:

carbon dioxide
Powder
fine water spray
water spray jet

Extinguishing media which must not be used for safety reasons:

Foam.
High pressure waterjet

Special protection equipment for firefighters:

Wear self-contained breathing apparatus.
Wear protective equipment.

Hazardous combustion products:

Carbon dioxide., carbon monoxide

Additional information:

Dispose of combustion residues and contaminated fire-fighting water in accordance with statutory regulations.

6. Accidental release measures

Personal precautions:

Avoid contact with skin and eyes.
Keep away from sources of ignition.
Ensure adequate ventilation.

Environmental precautions:

Do not empty into drains / surface water / ground water.

Clean-up methods:

Remove mechanically.
Dispose of contaminated material as waste according to item 13.

7. Handling and storage

Handling:

Avoid skin and eye contact.
Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.
Throw out sparks on burning.

Storage:

- Store in sealed original container protected against moisture.
- Store in a cool place in closed original container.
- Store in a cool, dry place.
- Storage at 5 to 25°C is recommended.
- store in dark
- Do not store together with food or other consumables (coffee, tea, tobacco, etc.).
- Do not store together with highly flammable substances (F or F+).

8. Exposure controls / personal protection

Components with specific control parameters for workplace:

- Valid for
 - Great Britain
- Basis
 - UK EH40 WELs

Ingredient	ppm	mg/m ³	Type	Category	Remarks
DIBENZOYL PEROXIDE 94-36-0		5	Time Weighted Average (TWA).		EH40 WEL
GLYCEROL, MIST 56-81-5		10	Time Weighted Average (TWA).		EH40 WEL

Engineering controls:

No further information, see section 7.

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Hand protection:

For shorttime contact (e.g. as protection against splashes) protective gloves made from butyl rubber are recommended according to EN 374.
 material thickness > 0.7 mm
 Perforation time > 60 minutes
 In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Skin protection:

suitable protective clothing

General protection and hygiene measures:

- Wash off any dirt that gets onto the skin with lots of soap and water, skin care.
- Do not eat, drink or smoke while working.
- Wash hands before work breaks and after finishing work.

9. Physical and chemical properties

General characteristics:

Appearance	Paste solid
Odor:	Black Characteristic

Phys./chem. properties:

Density (20 °C (68 °F))	0,97 - 1,03 g/cm ³
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble

10. Stability and reactivity

Conditions to avoid:

Temperatures over appr. 80 °C

Materials to avoid:

Reaction with oxidants.

Hazardous decomposition products:

None known

11. Toxicological information

General toxicological information:

Persons suffering from allergic reactions to peroxides should avoid contact with the product.

Eye irritation:

Primary eye irritation: slightly irritating, does not require labeling

Sensitizing:

May cause sensitization by skin contact.

12. Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

13. Disposal considerations

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

After curing with component A :

Can be added to household waste in small quantities.

The valid EEC waste code numbers are not product-related but are largely source-related. The manufacturer is therefore unable to specify EEC waste codes for the articles or products used in the various sectors. These can be requested from the manufacturer.

Disposal of uncleaned packages:

Only well-emptied containers with dried or cured product residues and without solvent vapors can be recycled.

14. Transport information**Road transport ADR:**

Class: 5.2
Packaging group:
Classification code: P1
Hazard ident. number:
UN no.: 3108
Label: 5.2
Technical name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Railroad transport RID:

Class: 5.2
Packaging group:
Classification code: P1
Hazard ident. number: 539
UN no.: 3108
Label: 5.2
Technical name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Inland water transport ADN:

Class: 5.2
Packaging group:
Classification code: P1
Hazard ident. number:
UN no.: 3108
Label: 5.2
Technical name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Marine transport IMDG:

Class: 5.2
Packaging group:
UN no.: 3108
Label: 5.2
EmS: F-J ,S-R
Seawater pollutant:
Proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

Air transport IATA:

Class: 5.2
Packaging group:
Packaging instructions (passenger) 510
Packaging instructions (cargo) 513
UN no.: 3108
Label: 5.2
Proper shipping name: Organic peroxide type E, solid (Dibenzoyl peroxide)

15. Regulations - classification and identification

Indication of danger:

Xi - Irritant



Contains

Dibenzoyl peroxide

Risk phrases:

R43 May cause sensitization by skin contact.

Safety phrases:

S2 Keep out of the reach of children.

S3/7 Keep container tightly closed in a cool place.

S14 Keep away from dirt, rust, alkalis, acids and accelerators.

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

R36 Irritating to eyes.

R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

R7 May cause fire.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.