

Printing date 27.11.2012 Version number 6 Revision: 27.11.2012

1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: Hilti HIT-MM PLUS
- · Container size 330 ml, 500 ml
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use Building and construction work
- · Application of the substance / the preparation Adhesive mortar for anchor and rebar fastenings
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Hilti South Africa

72 Gazelle Avenue, Corporate Park

PO Box 5588 Halfway House 1685 Midrand

Phone: 08000 23331 (Toll free)

Fax: 011 237 3111

Email: Customercare.za@hilti.com

· Informing department:

anchor.hse@hilti.com

see section 16

· Emergency telephone number:

Schweizerisches Toxikologisches Informationszentrum - 24 h Service

Tel.: 0041 / 44 251 51 51 (international)

Hilti South Africa

Phone: 08000 23331 (Toll free)

Fax: 011 237 3111

2 Hazards identification

· Classification of the substance or mixture

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



O; Oxidising

R7: May cause fire.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· Label elements

 \cdot Labelling according to EU guidelines:

Observe the normal safety regulations when handling chemicals.

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

 \cdot Code letter and hazard designation of product:





Xi Irritant O Oxidising

· Hazard-determining components of labelling:

methacrylic acid, monoester with propane-1,2-diol dibenzoyl peroxide

· Risk phrases:

36 Irritating to eyes.

43 May cause sensitisation by skin contact.

7 May cause fire.

· Safety phrases:

3 Keep in a cool place.

24/25 Avoid contact with skin and eyes.

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

After contact with skin, wash immediately with plenty of water and soap.

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

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Safety data sheet according to 1907/2006/EC, Article 31

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· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Additional information:



· Information pertaining to particular dangers for man and environment: A

R 36 Irritating to eyes

R 43 May cause sensitisation by skin contact

· Information pertaining to particular dangers for man and environment: B

R 43 May cause sensitisation by skin contact

R 7 May cause fire

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized

Mixture of the substances listed below with harmless additions.

· Dangerous	· Dangerous components:		
27813-02-1	methacrylic acid, monoester with propane-1,2-diol	15-25%	
	🗶 Xi R36; 🔀 Xi R43		
	♦ Eye Irrit. 2, H319; Skin Sens. 1, H317		
	dibenzoyl peroxide	5-10%	
	Xi R36; Xi R43; E R3;		
	🔗 🅸 Org. Perox. B, H241; 🗘 Eye Irrit. 2, H319; Skin Sens. 1, H317		

· Dangerous components A:	
27813-02-1 methacrylic acid, monoester with propane-1,2-diol	Xi R36; X Xi R43
	Eye Irrit. 2, H319; Skin Sens. 1, H317

· Dangerous components B:

- · SVHC None
- · Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- · General information Instantly remove any clothing soiled by the product.
- · After inhalation Take affected persons into the open air and position comfortably
- After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation persist, call a physician.
- · After eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- · After swallowing

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents Water spray, carbon dioxide (CO2), carbon dioxide blanket, foam, or dry powder.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- \cdot Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

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· Advice for firefighters

• **Protective equipment:** In the event of fire, wear self contained breathing apparatus

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6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Do not allow to enter drainage system, surface or ground water.
- Methods and material for containment and cleaning up:

Collect mechanically.

Collect in a suitable container and dispose of as described at paragraph 13.

 \cdot Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7 Handling and storage

- · Handling
- · Precautions for safe handling Check the expiry date: see imprint on manifold (month/year). Do not use expired mortar!
- Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers: Keep in a cool, dry and dark place; 5 °C to 25 °C.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- $\cdot \ Further \ information \ about \ storage \ conditions:$

Protect from heat and direct sunlight.

Store in a cool place.

· Storage class

As per VCI (1991) storage classification concept.

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· Specific end use(s) Adhesive anchoring system for rebar and anchor fastenings in concrete.

8 Exposure controls/personal protection

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant for this product.

- · Additional information: The lists that were valid during the compilation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Do not eat, drink or smoke while working.

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

· Protection of hands:

Protective gloves

EN 374 / EN 388

Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Not suitable are gloves made of the following materials:

Natural rubber, NR

Leather gloves

Strong gloves

• Eye protection: Tightly sealed safety glasses.

EN 166 / EN 170

· Body protection: Protective work clothing.

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	9 Physical	and c	hemical	l prope	rties
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 Information on 	basic p	hysical	and c	hemical	l properties
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 $\cdot \ General \ Information$

Appearance:
Form:
Colour:
Odour:
Ester-like
Odour threshold:
Not determined.

• **pH-value:** Component A: not applicable

Component B: ~ 6

· Change in condition

Melting point/Melting range: Not determined Boiling point/Boiling range: Not determined

• Flash point: Component A: > 109 °C (DIN 53213)

Component B: not applicable

· Inflammability (solid, gaseous) Not determined.

· Ignition temperature: Not determined

• **Decomposition temperature:** Component A: not relevant Component B: SADT 65°C UN test H4

· **Self-inflammability:** Product is not selfigniting.

· Danger of explosion: Product is not explosive.

· Critical values for explosion:

Lower: Not determined.
Upper: Not determined.

• Vapour pressure at 20°C: 0,1 hPa

Density at 20°C
 Relative density
 1,7 g/cm³ (DIN 51757)
 Not determined.

• Vapour density Not applicable.
• Evaporation rate Not applicable.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

dynamic at 20°C: ~70 Pas (DIN 53788) **kinematic at 20°C:** >20 s (DIN 53211/4)

· Solvent content:

Organic solvents: 0,0 %

Water: Component B: ~ 20%

· Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eve: Irritant effect.
- · Sensitization: Sensitization possible by skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant



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12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- $\cdot \textbf{Persistence and degradability} \ No \ further \ relevant \ information \ available.$
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC: None
- · General notes: The product does not contain organically bounded halogens (AOX-free).
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

For disposal, local regulations issued by the authorities must be observed.

Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations

Tun of only partially empired cartriages must be disposed of as special waste in accordance with official regulations.				
· European	· European waste catalogue			
	8 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS			
08 04 00	04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)			
08 04 09*	09* waste adhesives and sealants containing organic solvents or other dangerous substances			
	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS			
20 01 00	separately collected fractions (except 15 01)			
20 01 27*	paint, inks, adhesives and resins containing dangerous substances			

- · Uncleaned packagings:
- · Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Empty packs: May be disposed via the local Green Dot collecting system or EAK waste material code 150102 (plastic packaging materials)

Transport information	
· UN-Number · ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · ADR · ADN, IMDG, IATA	Void Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MAE the IBC Code	RPOL73/78 and Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications. available oxygen content $< 1 \%$
· HS-Code:	3214 10 10: Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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- $\cdot \textbf{Information about limitation of use:} \ Employment \ restrictions \ concerning \ young \ persons \ must \ be \ observed.$
- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57 None
- · Chemical safety assessment: not required.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.
- R7 May cause fire.

· Department issuing data specification sheet:

Hilti Entwicklungsgesellschaft mbH

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· Contact: Mechthild Krauter

 \cdot * Data compared to the previous version altered.

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