





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

- **Product identifier**
- **Trade name:** Hilti HIT-MM
- **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 Ireland,  
1850 287 387,  
Unit C4, North City Business Park,  
Finglas,  
Dublin 11,  
Ireland  
Phone: 1850 287 387  
Fax: 1800 654 600  
Email: iesales@hilti.com
- **Informing department:**  
anchor.hse@hilti.com  
see section 16
- **Emergency telephone number:**  
Hilti Ireland,  
Phone: 1850 287 387  
Fax: 1800 654 600  
Schweizerisches Toxikologisches Informationszentrum - 24 h Service  
Tel.: 0041 / 44 251 51 51 (international)

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
  -  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**
- **Labelling according to EU guidelines:** The product has been labelled in accordance with EC Directives / relevant national laws.
- **Code letter and hazard designation of product:**
  -   Xi Irritant  
O Oxidising
- **Hazard-determining components of labelling:**  
dibenzoyl peroxide  
methacrylic acid, monoester with propane-1,2-diol
- **Risk phrases:**  
7 May cause fire.  
43 May cause sensitisation by skin contact.
- **Safety phrases:**  
3 Keep in a cool place.  
24/25 Avoid contact with skin and eyes.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
28 After contact with skin, wash immediately with plenty of water and soap.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- **Special labelling of certain preparations:**  
Restricted to professional users.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**Trade name: Hilti HIT-MM**

(Contd. of page 1)

**Additional information:**

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

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 components:**

CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide ☒ Xi R36; ☒ Xi R43; ☒ E R3; ☒ O R7 ☒ Org. Perox. B, H241; ☒ Eye Irrit. 2, H319; Skin Sens. 1, H317	5-15%
CAS: 27813-02-1 EINECS: 248-666-3 Reg.nr.: 01-2119490226-37	methacrylic acid, monoester with propane-1,2-diol ☒ Xi R36; ☒ Xi R43 ☒ Eye Irrit. 2, H319; Skin Sens. 1, H317	<2.5%

**Dangerous components A:**

CAS: 27813-02-1 EINECS: 248-666-3 Reg.nr.: 01-2119490226-37	methacrylic acid, monoester with propane-1,2-diol ☒ Xi R36; ☒ Xi R43 ☒ Eye Irrit. 2, H319; Skin Sens. 1, H317
---	---

**Dangerous components B:**

CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide ☒ Xi R36; ☒ Xi R43; ☒ E R3; ☒ O R7 ☒ Org. Perox. B, H241; ☒ Eye Irrit. 2, H319; Skin Sens. 1, H317
--	---

• 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** Seek immediate medical advice.

**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 (CO<sub>2</sub>), carbon dioxide blanket, foam, or dry powder.

 • **For safety reasons unsuitable extinguishing agents** Water with full jet.

**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire

 Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

 Carbon dioxide (CO<sub>2</sub>)

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

**Advice for firefighters**

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

(Contd. on page 3)

Trade name: Hilti HIT-MM

(Contd. of page 2)

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
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.  
Clean the accident area carefully; suitable cleaners are:  
organic solvent
- **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!  
Keep away from heat and direct sunlight.  
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **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.
- **Further information about storage conditions:** Protect from heat and direct sunlight.
- **Storage class**  
As per VCI (1991) storage classification concept.  
11
- **Specific end use(s)** Adhesive mortar for anchor and rebar fastenings

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **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 are 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.  
Take off immediately all contaminated clothing
- **Breathing equipment:** Not required.
- **Protection of hands:**  
Protective gloves  
EN 374 / EN 388  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Avoid direct contact with the chemical/ the product/ the preparation by organizational measures.
- **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 through 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

(Contd. on page 4)



# Safety data sheet

according to 1907/2006/EC, Article 31 / ISO 11014

Printing date 23.07.2012

Version number 4

Revision: 23.07.2012

Trade name: Hilti HIT-MM

(Contd. of page 3)

· **Body protection:** Protective work clothing.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

· <b>Form:</b>	pasty
· <b>Colour:</b>	Light grey
· <b>Odour:</b>	Ester-like
· <b>Odour threshold:</b>	Not determined

· <b>pH-value:</b>	Component A: not applicable Component B: ~ 6
--------------------	---

#### · Change in condition

· <b>Melting point/Melting range:</b>	Not determined
· <b>Boiling point/Boiling range:</b>	240°C

· <b>Flash point:</b>	Component A: > 100 °C (DIN 53213) Component B: not applicable
-----------------------	--

· <b>Inflammability (solid, gaseous)</b>	Not determined
--	----------------

#### · Ignition temperature:

· <b>Decomposition temperature:</b>	Component A: not relevant Component B: + 50 °C (SADT)
-------------------------------------	--

· <b>Self-inflammability:</b>	Product is not selfigniting.
-------------------------------	------------------------------

· <b>Danger of explosion:</b>	Product is not explosive.
-------------------------------	---------------------------

#### · Critical values for explosion:

· <b>Lower:</b>	Not determined
· <b>Upper:</b>	Not determined

· <b>Vapour pressure:</b>	Not determined
---------------------------	----------------

· <b>Density at 20°C</b>	1.70 g/cm <sup>3</sup> (DIN 51757)
--------------------------	------------------------------------

· <b>Relative density</b>	Not determined
---------------------------	----------------

· <b>Vapour density</b>	Not determined
-------------------------	----------------

· <b>Evaporation rate</b>	Not determined
---------------------------	----------------

#### · Solubility in / Miscibility with

· <b>Water:</b>	Unsoluble
-----------------	-----------

· <b>Partition coefficient (n-octanol/water):</b>	Not determined
---	----------------

#### · Viscosity:

· <b>dynamic at 20°C:</b>	~ 70 Pa.s (DIN 53788)
· <b>kinematic at 20°C:</b>	> 20 s (DIN 53211/4)

#### · Solvent content:

· <b>Organic solvents:</b>	0 %
· <b>Water:</b>	Component B: ~ 30%

· <b>Other information</b>	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 eye:** No 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:

(Contd. on page 5)



# Safety data sheet

according to 1907/2006/EC, Article 31 / ISO 11014

Printing date 23.07.2012

Version number 4

Revision: 23.07.2012

Trade name: Hilti HIT-MM

Irritant

(Contd. of page 4)

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Ecotoxicological effects:** Not determined
- **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.  
After curing, the product can be disposed of with household waste.

### · European waste catalogue

08 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	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
20 00 00	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 (Repak) or EAK waste material code 150102 (plastic packaging materials)

## 14 Transport information

· <b>UN-Number</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>UN proper shipping name</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>Transport hazard class(es)</b>	
· <b>ADR, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications. available oxygen content < 1 %
· <b>HS-Code:</b>	3214 10 10: Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics

(Contd. on page 6)



# Safety data sheet

according to 1907/2006/EC, Article 31 / ISO 11014

Printing date 23.07.2012

Version number 4

Revision: 23.07.2012

Trade name: Hilti HIT-MM

(Contd. of page 5)

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**  
Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work. Article 12 Training of workers
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **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  
Hiltistrasse 6  
D-86916 Kaufering  
Tel.: +49 8191 906092  
Fax: +49 8191 90176092  
e-mail: anchor.hse@hilti.com

- **Contact:** Mechthild Krauter

- \* **Data compared to the previous version altered.**