


Hazardous according to criteria of Australian Safety and Compensation Council

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

- **Product identifier**
- **Trade name:** Hilti HVU M8 - M39
- **Container size** 8 g - 465 g
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** Building and construction work
- **Application of the substance / the mixture** Adhesive anchor capsule for anchor fastening in concrete
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
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PO Box 3217
Rhodes N.S.W. 2138
Australia
Phone: +61 2 9849 1022
Fax: +61 2 8748 1191
Customer Service:
Tel: 1 800 257 393 (toll free)
Email: serviceaustralia@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 (Aust.) Pty. Ltd.
Phone: 02 9849 1022
Fax: 02 8748 1191

2 Hazards identification

- **Classification of the substance or mixture**
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Xi; Sensitising
R43: May cause sensitisation by skin contact.
- **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**
- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**

GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**
Hydroxypropyl methacrylate
Dibenzoyl peroxide
- **Hazard statements**
H317 May cause an allergic skin reaction.

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· Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.

· Information pertaining to particular dangers for man and environment
· Safety phrases:

- 3 Keep in a cool place.
- 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.

· Other hazards
· Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures
· Description:

Mixture of the substances listed below with harmless additions.

Foil capsule contains:

Urethane methacrylate resin, inorganic filler

Dibenzoyl peroxide, phlegmatized

· Dangerous components:

27813-02-1	Hydroxypropyl methacrylate Xi R36; Xi R43 ----- Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5-10%
2082-81-7	tetramethylene dimethacrylate Xi R43 ----- Skin Sens. 1B, H317	2.5-10%
94-36-0	dibenzoyl peroxide Xi R36; Xi R43; E R3; O R7; N R50 ----- Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Eye Irrit. 2, H319; Skin Sens. 1, H317	<2.5%
84-61-7	dicyclohexyl phthalate Xn R62; Xi R43 R53 ----- Repr. 2, H361; Skin Sens. 1, H317; Aquatic Chronic 3, H412	<2.5%

- **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

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor after significant exposure.

- **After skin contact** Instantly wash with water and soap and rinse thoroughly. If skin irritation persist, call a physician.

- **After eye contact** Seek medical treatment.

· After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Information for doctor

- **Most important symptoms and effects, both acute and delayed** Allergic reactions

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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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.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
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

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Keep away from ignition sources
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
- **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**
The usual precautionary measures should be adhered to general rules for handling chemicals.
Observe the capsule expiration date: See date printed on the sales packaging (box).
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Store in a cool (+5 °C to +25 °C), dry and dark place only in the original packaging.
- **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.
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- **Specific end use(s)** Adhesive anchor capsule for anchor fastening 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.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Do not eat, drink or smoke while working.
Be sure to clean skin thoroughly after work and before breaks.
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.

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Use skin protection cream for preventive skin protection.

- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

EN 374

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

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

- **Material of gloves**

Nitrile rubber, NBR

 Recommended thickness of the material: ≥ 0.12 mm

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.

- **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:**

Leather gloves

Strong gloves

- **Eye protection:**



Safety glasses

EN 166 / EN 170

- **Body protection:**



Protective work clothing.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:	foil capsule
Colour:	resin: yellowish liquid hardener: white powder

- **Odour:**

Ester-like

- **Odour threshold:**

Not determined

- **pH-value:**

Not applicable

- **Change in condition**

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

- **Flash point:**

 >101 °C (DIN EN ISO 1523)

- **Inflammability (solid, gaseous)**

Not determined

- **Ignition temperature:**

Decomposition temperature:	Peroxid: +55 °C (SADT)
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- **Self-inflammability:**

Product is not selfigniting.

- **Danger of explosion:**

Product is not explosive.

- **Critical values for explosion:**

Lower:	Not determined
Upper:	Not determined

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· Vapour pressure at 20 °C:	0.1 hPa
· Density	resin: 1,1 g/cm ³ hardener: 1,2 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined
· Evaporation rate	Not determined
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water):	Not determined
· Viscosity:	
dynamic:	Not applicable.
kinematic at 20 °C:	20 s (ISO 2431) Not applicable.
· Solvent separation test	Not determined
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored 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:** none, if stored and handled correctly.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitisation:** 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
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** None

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.
- **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.

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Unusable foil capsules e.g. if expiry date has been exceeded, should be disposed of as hazardous waste material under observance of the official regulations.

· **European waste catalogue**

20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Non contaminated packagings can be used for recycling.
Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

- | | |
|--|--|
| · UN-Number | Void |
| · ADG, ADN, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · ADG, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | Void |
| · ADG, ADN, IMDG, IATA | Void |
| · Class | Void |
| · Packing group | Void |
| · ADG, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special marking (ADG): | None |
| · Special marking (IATA): | None |
| · Special precautions for user | Not applicable. |
| · Kemler Number: | Void |
| · EMS Number: | Void |
| · Segregation groups | Void |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | Not dangerous according to the above specifications.
available oxygen content < 1 % |
| · UN "Model Regulation": | - |
| · HS-Code: | 3214 10 10: Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

94-36-0	Dibenzoyl peroxide		S2, S4, S5
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- **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.

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- **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.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.
- 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.
- R50 Very toxic to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- R7 May cause fire.

· Department issuing data specification sheet:

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· Contact: Mechthild Krauter**· Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Org. Perox. B: Organic Peroxides, Type B
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
Repr. 2: Reproductive toxicity, Hazard Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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