



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

- **1.1 Product identifier**
- **Trade name:** **Hilti HIT-HY 110**
- **Container size** 330 ml, 500 ml
- **1.2 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 mortar for rebar and anchor fastenings in solid concrete
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hilti (Schweiz) AG
Soodstrasse 61
CH-8134 Adliswil
Telefon: 0844 84 84 85
Fax: 0844 84 84 86
E-Mail: info@hilti.ch
- **Informing department:**
anchor.hse@hilti.com
see section 16
- **1.4 Emergency telephone number:**
Schweizerisches Toxikologisches Informationszentrum - 24 h Service
Tel.: 0041 / 44 251 51 51 (international)
- Hilti (Schweiz) AG
Tel: 0844 84 84 85
Fax: 0844 84 84 86

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Aquatic Acute 1 H400 Very toxic to aquatic life.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
not applicable
Xi; Sensitising
R43: May cause sensitisation by skin contact.
N; Dangerous for the environment
R50: Very toxic to aquatic organisms.
- **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.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS07 
GHS09
- **Signal word** Warning
- **Hazard-determining components of labelling:**
Hydroxypropyl methacrylate
dibenzoyl peroxide
- **Hazard statements**
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

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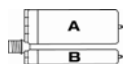
H400 Very toxic to aquatic life.

Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P262 Do not get in eyes, on skin, or on clothing.
- 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.

2.3 Other hazards
Results of PBT and vPvB assessment

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

Additional information:


Hilti HIT

Information pertaining to particular dangers for man and environment: A

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

Information pertaining to particular dangers for man and environment: B

- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.

SECTION 3: Composition/information on ingredients
3.2 Chemical characterisation: 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:
Dangerous components A:

CAS: 27813-02-1 EINECS: 248-666-3 Reg.nr.: 01-2119490226-37	Hydroxypropyl methacrylate	Xi R36; Xi R43 Eye Irrit. 2, H319; Skin Sens. 1, H317	10-15%
CAS: 2082-81-7 EINECS: 218-218-1 Reg.nr.: 01-2119967415-30	tetramethylene dimethacrylate	Xi R43 Skin Sens. 1B, H317	10-15%

Dangerous components B:

CAS: 94-36-0 EINECS: 202-327-6	Dibenzoyl peroxide	Xi R36; Xi R43; E R3; O R7 Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-10%
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· SVHC None

 · **Additional information** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures
4.1 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 rinse with water.
- **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.

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

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Sand
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **5.2 Special hazards arising from the substance or mixture**
Can be released 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.
- **5.3 Advice for firefighters**
- **Protective equipment:** In the event of fire, wear self contained breathing apparatus

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.
Keep away from ignition sources
- **6.2 Environmental precautions:** Do not allow to enter the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
Clean the accident area carefully; suitable cleaners are:
organic solvent
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Check the expiry date: see imprint on manifold (month/year). Do not use expired mortar!
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 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.
- **Maximum storage temperature:** 25 °C
- **Storage class**
As per VCI (1991) storage classification concept.
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- **7.3 Specific end use(s)** Adhesive mortar for anchor fastenings in concrete

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring 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.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Do not eat, drink or smoke while working.

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

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

EN 374 / EN 388

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: $\geq 0,12$ 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. 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:**



Safety glasses

EN 166 / EN 170

· **Body protection:**



Protective work clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** pasty

· **Colour:** Grey

· **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:** 231 °C

· **Flash point:** 109 °C (DIN EN ISO 1523)

· **Inflammability (solid, gaseous)** Not determined

· **Ignition temperature:** 355 °C

· **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.

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· Critical values for explosion:	
Lower:	Not determined
Upper:	Not determined
· Vapour pressure:	Component A: 0,1 hPa (20 °C)
· Density at 20 °C	1,7 g/cm ³ (DIN 51757)
· 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:	Not applicable.
· Solvent content:	
Organic solvents:	0,0 %
Water:	Component B: ~ 30%
EU-VOC	0 % (2004/42/EG)
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** None

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 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).
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

After curing, the product can be disposed of with household waste.

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

· European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
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)

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, ADN, IMDG, IATA Void

· 14.2 UN proper shipping name

· ADR, ADN, IMDG, IATA Void

· 14.3 Transport hazard class(es)

· ADR, ADN, IMDG, IATA

· Class Void

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Not applicable.

· 14.7 Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.
available oxygen content < 1 %

· UN "Model Regulation":

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· HS-Code:

3214 10 10: Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics

SECTION 15: Regulatory information

· 15.1 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

· VOCV (Switzerland) 0,00 %

· 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

· 15.2 Chemical safety assessment: not required.

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SECTION 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.
- H400 Very toxic to aquatic life.

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

- R7 May cause fire.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.

· Department issuing data specification sheet:

Hilti Entwicklungsgesellschaft mbH
Hiltistrasse 6
D-86916 Kaufering
Tel.: +49 8191 906310
Fax: +49 8191 90176310
e-mail: anchor.hse@hilti.com

· 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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
VOC: Volatile Organic Compounds (USA, EU)
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

· * Data compared to the previous version altered.