





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

- **Product identifier**
- **Trade name:** **Hilti HIT-HY 150 MAX**
- **Container size** 330 ml, 500 ml, 1400 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 fastenings in concrete
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hilti (Gt. Britain) Ltd.
1 Trafford Wharf Road
Trafford Park
GB-M17 1BY Manchester
Phone: 0800 886 100 (Freephone)
Fax: 0800 886 200 (Freefax)
Email: gbsales@hilti.com
- **Informing department:**
anchor.hse@hilti.com
see section 16
- **Emergency telephone number:**
Hilti (Gt. Britain) Ltd
Phone: 0800 886 100 (Freephone)
Fax: 0800 886 200 (Freefax)
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.
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- **Label elements**
- **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)
- **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:**
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:**
Only for trade users / technical specialists
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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 · **vPvB:** Not applicable.

 · **Additional information:**


Hilti HIT

 · **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: 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	5-10%
CAS: 3290-92-4 EINECS: 221-950-4	Trimethylolpropane trimethacrylate ☒ N R51/53 ☒ Aquatic Chronic 2, H411	<2.5%
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	5-10%
CAS: 10043-35-3 EINECS: 233-139-2	boric acid ☒ T Repr. Cat. 2 R60-61 ☒ Repr. 1B, H360FD	<0.5%

 · **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
CAS: 3290-92-4 EINECS: 221-950-4	Trimethylolpropane trimethacrylate ☒ N R51/53 ☒ Aquatic Chronic 2, H411
CAS: 10043-35-3 EINECS: 233-139-2	boric acid ☒ T Repr. Cat. 2 R60-61 ☒ Repr. 1B, H360FD

 · **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
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 · **SVHC**

10043-35-3	boric acid
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 · **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 persists, 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.

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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**
 - Can be released in case of fire
 - Carbon monoxide (CO)
 - 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.
- **Environmental precautions:** Do not allow to enter the ground/soil.
- **Methods and material for containment and cleaning up:**
 - Collect mechanically.
 - Dispose of the material collected according to regulations.
- **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:**
 - No special measures required.
 - 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.
 - Store in a cool place.
- **Storage class**
 - As per VCI (1991) storage classification concept.
 - 11
- **Specific end use(s)** Adhesive mortar for anchor fastenings in concrete

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.
 - Avoid contact with the eyes and skin.
 - Do not eat, drink or smoke while working.
 - Keep away from foodstuffs, beverages and food.
 - Be sure to clean skin thoroughly after work and before breaks.
- **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.

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- **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:**
Leather gloves
Strong gloves
- **Eye protection:**
Tightly sealed 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:	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:	Not determined
- **Flash point:**

Component A:	> 109 °C (DIN 53213)
Component B:	not applicable
- **Ignition temperature:**
- **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:** 0.01 kPa
- **Density**

Component A:	1.7 g/cm ³ (DIN 51757)
Component B:	2.0 g/cm ³ (DIN 51757)
- **Relative density** Not determined
- **Vapour density** Not determined
- **Evaporation rate** Not determined
- **Solubility in / Miscibility with**

Water:	Unsoluble
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- **Partition coefficient (n-octanol/water):** Not determined
- **Viscosity:**

dynamic at 20°C:	~ 70 Pa.s (DIN 53788)
kinematic at 20°C:	> 20 s (DIN 53211/4)
- **Solvent content:**

Organic solvents:	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 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:** No dangerous decomposition products known

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11 Toxicological information

Information on toxicological effects
Acute toxicity:
LD/LC50 values that are relevant for classification:
10043-35-3 boric acid

Oral | LD50 | 2660 mg/kg (rango)

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:

Irritant

12 Ecological information

Toxicity
Aquatic toxicity:
3290-92-4 Trimethylolpropane trimethacrylate

EC50/96h | 4.43 mg/l (Algae)

>9.22 mg/l (magna daphnia)

2 mg/l (fisch)

 · **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

Hand over to disposers of hazardous waste.

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

European waste catalogue

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

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

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 (valpak) or EAK waste material code 150102 (plastic packaging materials)

14 Transport information

UN-Number

 · **ADR, ADN, IMDG, IATA**

Void

UN proper shipping name

 · **ADR, ADN, IMDG, IATA**

Void

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· 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 MARPOL73/78 and the IBC Code	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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **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
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10043-35-3 boric acid

- **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.
- H360FD May damage fertility. May damage the unborn child.
- H411 Toxic 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.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R60 May impair fertility.
- R61 May cause harm to the unborn child.
- R7 May cause fire.

- **Department issuing data specification sheet:**

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