

## 1 Identification

- **Product identifier**
- **Trade name:** **Hilti HIT-HY 200-R**
- **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 mixture** Adhesive anchoring system for rebar and anchor fastenings in concrete.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Hilti, Inc.  
5400 South 122nd East Ave.  
US-Tulsa, OK 74146  
Phone: (800) 879-8000  
Fax: (800) 879-7000  
Español: (800) 879-5000
- **Information department:**  
anchor.hse@hilti.com  
see section 16
- **Emergency telephone number:**  
Chem-Trec  
Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)  
Tel.: 703 527 3887 (Other countries)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Aquatic Acute 1 H400 Very toxic to aquatic life.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07 GHS09

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
Hydroxypropyl methacrylate  
dibenzoyl peroxide
- **Hazard statements**  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
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 water.
- **Classification system**
- **NFPA ratings (scale 0-4)**



Health = 1  
Fire = 2  
Reactivity = 1

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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**  
H317 May cause an allergic skin reaction.

- **Information pertaining to particular dangers for man and environment: B**  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H400 Very toxic to aquatic life.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**  
2-Component-Foilpack, contains:  
Component A: Urethane methacrylate resin, inorganic filler  
Component B: Dibenzoylperoxide, phlegmatized

Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

- **Dangerous components A:**

27813-02-1	Hydroxypropyl methacrylate	5-10%
2082-81-7	tetramethylene dimethacrylate	10-15%
14808-60-7	Quartz (SiO <sub>2</sub> )	40-50%
1344-28-1	aluminium oxide	5-10%

- **Dangerous components B:**

94-36-0	dibenzoyl peroxide	10-15%
14808-60-7	Quartz (SiO <sub>2</sub> )	40-50%
1344-28-1	aluminium oxide	15-25%

### 4 First-aid measures

- **Description of first aid measures**
- **General information** Immediately remove any clothing soiled by the product.
- **After inhalation** Take affected persons into fresh air and keep quiet.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Protect unharmed eye.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Seek immediate medical advice.
- **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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Sand
- **For safety reasons unsuitable extinguishing agents** Water with full jet.
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Carbondioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.  
Ensure adequate ventilation
- **Environmental precautions:** Do not allow to penetrate the ground/soil.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Clean the affected area carefully; suitable cleaners are:  
organic solvent  
Ensure adequate ventilation.  
Dispose 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 disposal information.

## 7 Handling and storage

- **Handling**
- **Precautions for safe handling**  
Check the expiry date: see imprint on manifold (month/year). Do not use expired mortar!  
The usual precautionary measures for handling chemicals should be followed.
- **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 receptacles:**  
Keep in a cool, dry and dark place; 41 °F / 5 °C to 77 °F / 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.

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· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves.

Only use chemical-protective gloves with CE-labeling of category III.

EN 374

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

Recommended thickness of the material:  $\geq 0.12$  mm

· **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 goggles.

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  
**Color:** Component A: grey  
 Component B: white

· **Odor:** Ester-like

· **Odour threshold:** Not determined

· **pH-value:** Componente A: not applicable  
 Componente B:  $\sim 7$

· **Change in condition**

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** undetermined

· **Flash point:** Component A:  $> 109$  °C (DIN EN ISO 1523)  
 Component B: not applicable

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

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· <b>Ignition temperature:</b>	355 °C (671 °F)
· <b>Decomposition temperature:</b>	Component A: not relevant Component B: SADT 65 °C UN test H4
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined
<b>Upper:</b>	Not determined
· <b>Vapor pressure at 20 °C (68 °F):</b>	< 0.1 hPa (< 0 mm Hg)
· <b>Density at 20 °C (68 °F):</b>	1.8 g/cm <sup>3</sup> (15.021 lbs/gal) (DIN 51757)
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not determined
· <b>Evaporation rate</b>	Not determined
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
· <b>Partition coefficient (n-octanol/water):</b>	Not determined
· <b>Viscosity:</b>	
<b>dynamic at 20 °C (68 °F):</b>	50 Pa.s (DIN 53019)
<b>kinematic at 20 °C (68 °F):</b>	> 20 s (ISO 2431)
· <b>Solvent separation test</b>	Not determined
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	None
<b>Water:</b>	Component B: ~ 20%
· <b>Other information</b>	VOC Content: 7 g/l (EPA Method 24)

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
To avoid thermal decomposition do not overheat.  
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

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant
- **Carcinogenic categories**

### · NTP (National Toxicology Program)

 14808-60-7 | Quartz (SiO<sub>2</sub>)

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US EN

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## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/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**  
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:** Disposal must be made according to official regulations.

## 14 Transport information

- |                                       |                 |
|---------------------------------------|-----------------|
| · <b>UN-Number</b>                    | Void            |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>    | Void            |
| · <b>UN proper shipping name</b>      | Void            |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>    | Void            |
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>DOT, ADN</b>                     |                 |
| · <b>Class</b>                        | Void            |
| · <b>ADR, IMDG, IATA</b>              |                 |
| · <b>Class</b>                        | Void            |
| · <b>Label</b>                        | Void            |
| · <b>Packing group</b>                |                 |
| · <b>DOT, ADR, IMDG, IATA</b>         | Void            |
| · <b>Environmental hazards:</b>       |                 |
| · <b>Marine pollutant:</b>            | No              |
| · <b>Special marking (ADR):</b>       | None            |
| · <b>Special marking (IATA):</b>      | None            |
| · <b>Special precautions for user</b> | Not applicable. |
| · <b>Danger code (Kemler):</b>        | Void            |
| · <b>EMS Number:</b>                  | Void            |
| · <b>Segregation groups</b>           | 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 %

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- 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

· Section 355 (Extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1344-28-1 aluminium oxide

94-36-0 Dibenzoyl peroxide

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65:

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Carcinogenicity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

 14808-60-7 Quartz (SiO<sub>2</sub>)

A2

1344-28-1 aluminium oxide

A4

94-36-0 Dibenzoyl peroxide

A4

· MAK (German Maximum Workplace Concentration)

 14808-60-7 Quartz (SiO<sub>2</sub>)

1

1344-28-1 aluminium oxide

2

· NIOSH-Ca (National Institute for Occupational Safety and Health)

 14808-60-7 Quartz (SiO<sub>2</sub>)

· National regulations

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· Information about limitation of use: Employment restrictions concerning young persons must be observed.

· Chemical safety assessment: not required.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

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.

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.

· Department issuing SDS:

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None

· **Contact:** Mechthild Krauter· **Date of preparation / last revision** 05/18/2015 / 2· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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.**