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

· Product identifier
  · Trade name: Hilti HIT-HY 20
  · 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 hollow masonry

· 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
  · 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

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 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:
  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.
  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.
  37/39 Wear suitable 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-HY 20

**Additional information:**

Hilti HIT

- Information pertaining to particular dangers for man and environment: A None
- 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:**

<table>
<thead>
<tr>
<th>CAS: 94-36-0</th>
<th>EINECS: 202-327-6</th>
<th>dibenzoyl peroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xi R36; Xi R43; E R3; A O R7</td>
<td>5-15%</td>
<td></td>
</tr>
<tr>
<td>☉ ☉ Org. Perox. B, H241; ☇ Eye Irrit. 2; H319; Skin Sens. 1; H317</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Dangerous components A: None
- Dangerous components B:

**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
  - 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
  - Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Call a doctor immediately.
  - 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.

### 5 Firefighting measures

- Extinguishing media
  - Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
- Special hazards arising from the substance or mixture
  - Can be released in case of fire
  - Nitrogen oxides (NOx)
  - Carbon monoxide (CO)
  - Carbon dioxide (CO2)
  - 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
  - Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
Trade name: Hilti HIT-HY 20

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 should be adhered to general rules for handling chemicals.
    Keep away from heat and direct sunlight.
  · 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 fastenings in hollow masonry

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.
      Use skin protection cream for preventive skin protection.
      Be sure to clean skin thoroughly after work and before breaks.
      Take off immediately all contaminated clothing.
      Avoid contact with the eyes and skin.
      Keep away from foodstuffs, beverages and food.
    · Breathing equipment: Not required.
    · Protection of hands:
    · Material of gloves: Nitrile rubber, NBR
    · Penetration time of glove material
      The exact breakthrough 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
    · Body protection: Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: paste
      · Colour: Grey
      · Odour: Ester-like
## 35.0.20

- **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: > 100 °C (DIN 53213)
  - Component B: not applicable
- **Inflammability (solid, gaseous):** Not determined
- **Ignition temperature:** Not determined
- **Decomposition temperature:** 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:** Component A: < 0,1 hPa (20 °C)
- **Density at 20°C:** 1,1 g/cm³ (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 at 23°C: ~ 90 Pa.s (DIN 53788)
  - kinematic at 20°C: > 20 s (DIN 53211/4)
- **Solvent content:**
  - Organic solvents: 0 %
  - Water: Component B: ~ 30%
- **Other information**
  - 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:
  - Irritant

### 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.
- **Ecotectical effects:**
  - Not determined

(Contd. on page 5)
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.
  Disposal must be made according to official regulations.
  Empty packs: May be disposed via the local Green Dot collecting system or EAK waste material code 150102 (plastic packaging materials)

14 Transport information

- UN-Number
  - Void
- UN proper shipping name
  - Void
- Transport hazard class(es)
  - ADR, ADN, IMDG, IATA
  - 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
  - VOCV (Switzerland) 0,0 %
- 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

(Contd. on page 6)
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 906310
  Fax: +49 8191 90176310
  e-mail: anchor.hse@hilti.com

- **Contact:** Mechthild Krauter

* Data compared to the previous version altered.