SECTION 1: Kit identification

1.1 Product identifier

Trade name HIT-HY 150 MAX

Product code BU Anchor

1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti, Inc.
Legacy Tower, Suite 1000
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

SECTION 2: General information

Storage Storage temperature: 5 - 25 °C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Classification of the Product

GHS-US classification
Eye Irrit. 2 H319
Skin Sens. 1 H317
Repr. 1B H360
Aquatic Acute 1 H400

Label elements

GHS-US labelling
Hazard pictograms (GHS-US)

Signal word (GHS-US) Danger
Hazardous ingredients methacrylates, dibenzoyl peroxide, boric acid
Hazard statements (GHS-US) H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child
H400 - Very toxic to aquatic life

Precautionary statements (GHS-US) P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash ... thoroughly after handling

01/12/2015 EN (English) 1/21
HIT-HY 150 MAX

Safety information for 2-Component-products

P272 - Contaminated work clothing should not be allowed out of the workplace
P273 - Avoid release to the environment

Additional information
2-Component-foilpack, contains:
Component A: Urethane methacrylate resin, inorganic filler
Component B: Dibenzoyl peroxide, phlegmatized

<table>
<thead>
<tr>
<th>Name</th>
<th>General description</th>
<th>Quantity</th>
<th>Unit</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIT-HY 150 MAX, A</td>
<td></td>
<td>1</td>
<td>pcs (pieces)</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Repr. 1B, H360</td>
</tr>
<tr>
<td>HIT-HY 150 MAX, B</td>
<td></td>
<td>1</td>
<td>pcs (pieces)</td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
</tbody>
</table>

SECTION 4: General advice

General advice For professional users only

SECTION 5: Safe handling advice

Environmental precautions Prevent entry to sewers and public waters
Notify authorities if liquid enters sewers or public waters
Storage conditions Keep cool. Protect from sunlight
Precautions for safe handling Wear personal protective equipment
Avoid contact with skin and eyes
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work
Provide good ventilation in process area to prevent formation of vapour
Methods for cleaning up This material and its container must be disposed of in a safe way, and as per local legislation
Store away from other materials
Recover mechanically the product
For containment Collect spillage
Incompatible materials Sources of ignition
Direct sunlight
Incompatible products Strong bases
Strong acids

SECTION 6: First aid measures

First-aid measures after eye contact Rinse immediately with plenty of water
Remove contact lenses, if present and easy to do. Continue rinsing
Obtain medical attention if pain, blinking or redness persist
First-aid measures after ingestion Rinse mouth
Do NOT induce vomiting
Obtain emergency medical attention
First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing
Allow breathing of fresh air
Allow the victim to rest
First-aid measures after skin contact Wash with plenty of soap and water
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get immediate medical advice/attention
Get medical advice/attention
First-aid measures general Never give anything by mouth to an unconscious person
## HIT-HY 150 MAX

Safety information for 2-Component-products

<table>
<thead>
<tr>
<th>Symptoms/injuries after eye contact</th>
<th>If you feel unwell, seek medical advice (show the label where possible)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms/injuries after skin contact</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td></td>
<td>May cause an allergic skin reaction</td>
</tr>
</tbody>
</table>

### SECTION 7: Fire fighting measures

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th>Use water spray or fog for cooling exposed containers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Exercise caution when fighting any chemical fire</td>
</tr>
<tr>
<td></td>
<td>Prevent fire-fighting water from entering environment</td>
</tr>
<tr>
<td>Protection during firefighting</td>
<td>Do not enter fire area without proper protective equipment, including respiratory protection</td>
</tr>
<tr>
<td>Hazardous decomposition products in case of fire</td>
<td>Thermal decomposition generates:</td>
</tr>
<tr>
<td></td>
<td>Carbon dioxide</td>
</tr>
<tr>
<td></td>
<td>Carbon monoxide</td>
</tr>
</tbody>
</table>

### SECTION 8: Other information

No data available
SECTION 1: Identification

1.1. Identification

Product form: Mixture
Name: HIT-HY 150 MAX, B
Product code: BU Anchor

1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier: Hilti, Inc.
Legacy Tower, Suite 1000
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

Department issuing data specification sheet: Hilti Entwicklungsgesellschaft mbH
Hiltistrasse 6
86916 Kaufering - Deutschland
T +49 8191 906310 - F +49 8191 90176310
anchor.hse@hilti.com

1.4. Emergency telephone number

Emergency number: Chem-Trec
Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)
Tel.: 703 527 3887 (Other countries)
+1 918 8723000
1-800-879-8000 toll free

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS-US classification
Skin Sens. 1: H317 - May cause an allergic skin reaction
Aquatic Acute 1: H400 - Very toxic to aquatic life

Full text of H-statements: see section 16

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US)

Signal word (GHS-US): Warning
Hazard statements (GHS-US): H317 - May cause an allergic skin reaction
H400 - Very toxic to aquatic life

Precautionary statements (GHS-US): P280 - Wear eye protection, protective clothing, protective gloves
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
2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (CAS No) 14808-60-7</td>
<td>40 - 60</td>
<td>Carc. 1A, H350</td>
<td></td>
</tr>
<tr>
<td>dibenzoyl peroxide (CAS No) 94-36-0</td>
<td>5 - 10</td>
<td>Org. Perox. B, H241, Eye Irrit. 2A, H319, Skin Sens. 1, H317, Aquatic Acute 1, H400</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general
Remove/Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Allow breathing of fresh air. Allow the victim to rest.

First-aid measures after skin contact
Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact
Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after skin contact
May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media

Unsuitable extinguishing media
Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Firefighting instructions
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting
Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

**Emergency procedures**
Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

**Protective equipment**
Use personal protective equipment as required. Equip cleanup crew with proper protection.

**Emergency procedures**
Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

**For containment**
Collect spillage.

**Methods for cleaning up**
This material and its container must be disposed of in a safe way, and as per local legislation. Recover mechanically the product. Store away from other materials.

**Other information**
Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 8: “Exposure controls/personal protection”. For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Precautions for safe handling**
Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

**Hygiene measures**
Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions**
Keep cool. Protect from sunlight.

**Incompatible products**
Strong bases. Strong acids.

**Incompatible materials**
Sources of ignition. Direct sunlight.

**Storage temperature**
5 - 25 °C

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Additional information**
The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

#### 8.2. Exposure controls

**Personal protective equipment**
Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.

**Hand protection**
Wear protective gloves.

**Eye protection**
Chemical goggles or safety glasses.
Skin and body protection: Wear suitable protective clothing.
Environmental exposure controls: Avoid release to the environment.
Consumer exposure controls: Avoid contact during pregnancy/while nursing.
Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties
- Physical state: Solid
- Appearance: Thixotropic paste.
- Colour: White
- Odour: Characteristic
- Odour threshold: Not determined
- pH: \( \approx 6 \)
- Melting point: No data available
- Freezing point: No data available
- Boiling point: No data available
- Flash point: No data available
- Relative evaporation rate (butylacetate=1): No data available
- Flammability (solid, gas): No data available
- Explosive limits: No data available
- Explosive properties: Product is not explosive.
- Oxidising properties: No data available
- Vapour pressure: No data available
- Relative density: No data available
- Relative vapour density at 20 °C: No data available
- Density: 2 g/ml DIN 66137-2
- Solubility: No data available
- Log Pow: No data available
- Auto-ignition temperature: Not self-igniting
- Decomposition temperature: 65 °C SADT
- Viscosity: No data available
- Viscosity, kinematic: No data available
- Viscosity, dynamic: 70 Pa.s HN-0333

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
No additional information available

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.
10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products
Fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>dibenzoyl peroxide (94-36-0)</strong></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Weight of evidence)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>pH: = 6</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>pH: = 6</td>
<td></td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Based on available data, the classification criteria are not met</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Quartz (14808-60-7)**
IARC group 1 - Carcinogenic to humans

**dibenzoyl peroxide (94-36-0)**
IARC group 3 - Not classifiable

Reproductive toxicity
Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure)
Not classified

Specific target organ toxicity (repeated exposure)
Not classified

Aspiration hazard
Not classified

Potential adverse human health effects and symptoms
Based on available data, the classification criteria are not met.

Symptoms/injuries after skin contact
May cause an allergic skin reaction.

SECTION 12: Ecological information

12.1. Toxicity

**dibenzoyl peroxide (94-36-0)**

<table>
<thead>
<tr>
<th>LC50 fish 1</th>
<th>2 mg/l (96 h; Poecilia reticulata)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC50 Daphnia 1</td>
<td>0.07 mg/l</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)</td>
</tr>
<tr>
<td>NOEC (acute)</td>
<td>0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

**HIT-HY 150 MAX, B**

Persistence and degradability
Not established.
### HIT-HY 150 MAX, B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

---

**12.3. Bioaccumulative potential**

<table>
<thead>
<tr>
<th>HIT-HY 150 MAX, B</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>dibenzoyl peroxide (94-36-0)</strong></td>
<td>Not established.</td>
</tr>
</tbody>
</table>

**Log Pow**

| **3.71 (QSAR; 3.2; Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 22 °C)** |

**Bioaccumulative potential**

| **Low potential for bioaccumulation (Log Kow < 4).** |

---

**12.4. Mobility in soil**

No additional information available

---

**12.5. Other adverse effects**

Effect on the global warming

No known ecological damage caused by this product.

**Other information**

Avoid release to the environment.

---

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Regional legislation (waste)

Disposal must be done according to official regulations.

Waste disposal recommendations

Refer to manufacturer/supplier for information on recovery/recycling. Dispose of contents/container to Avoid release to the environment. Refer to manufacturer/supplier for information on recovery/recycling.

Ecology - waste materials

Avoid release to the environment.

---

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.1. UN number</strong></td>
<td>Not regulated for transport</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

<table>
<thead>
<tr>
<th>Dangerous for the environment : Yes</th>
<th>Dangerous for the environment : Yes</th>
<th>Dangerous for the environment : Yes</th>
<th>Dangerous for the environment : Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine pollutant : Yes</td>
<td>Marine pollutant : Yes</td>
<td>Marine pollutant : Yes</td>
<td></td>
</tr>
</tbody>
</table>

ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)

No supplementary information available
14.6. Special precautions for user

- Overland transport

- Transport by sea
  No data available

- Air transport
  No data available

- Rail transport
  Carriage prohibited (RID)  No

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

SECTION 15: Regulatory information

15.1. US Federal regulations

Quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

dibenzoyl peroxide (94-36-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin Sens. 1  H317
Aquatic Acute 1  H400
Full text of hazard classes and H-statements : see section 16

National regulations
Quartz (14808-60-7)
Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations
No additional information available

SECTION 16: Other information

Revision date  11/23/2015
Other information  None.
HIT-HY 150 MAX, B
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-statements:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 1</td>
</tr>
<tr>
<td>Carc. 1A</td>
<td>Carcinogenicity, Category 1A</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation, Category 2A</td>
</tr>
<tr>
<td>Org. Perox. B</td>
<td>Organic Peroxides, Type B</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Sensitisation — Skin, Category 1</td>
</tr>
<tr>
<td>H241</td>
<td>Heating may cause a fire or explosion</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
</tbody>
</table>

SDS_US_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
SECTION 1: Identification

1.1. Identification

Product form: Mixture
Name: HIT-HY 150 MAX, A
Product code: BU Anchor

1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier: Hilti, Inc.
Legacy Tower, Suite 1000
75024 Plano - USA
T +1 9724035800
1-800-879-8000 toll free - F +1 918 254 0522

Department issuing data specification sheet: Hilti Entwicklungsgesellschaft mbH
Hiltistrasse 6
86916 Kaufering - Deutschland
T +49 8191 906310 - F +49 8191 90176310
anchor.hse@hilti.com

1.4. Emergency telephone number

Emergency number: Chem-Trec
Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)
Tel.: 703 527 3887 (Other countries)
+1 918 8723000
1-800-879-8000 toll free

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification
Eye Irrit. 2A H319 - Causes serious eye irritation
Skin Sens. 1 H317 - May cause an allergic skin reaction
Repr. 1B H360 - May damage fertility or the unborn child

Full text of H-statements: see section 16

2.2. Label elements

GHS-US labelling
Hazard pictograms (GHS-US)

Signal word (GHS-US) Danger
Hazard statements (GHS-US) H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child
Precautionary statements (GHS-US) P280 - Wear eye protection, protective clothing, protective gloves
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
HIT-HY 150 MAX, A
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2.3. Other hazards
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>(CAS No) 14808-60-7</td>
<td>25 - 40</td>
<td>Carc. 1A, H350</td>
</tr>
<tr>
<td>2-Hydroxypropyl methacrylate</td>
<td>(CAS No) 27813-02-1</td>
<td>5 - 10</td>
<td>Eye Irrit. 2A, H319, Skin Sens. 1, H317</td>
</tr>
<tr>
<td>1,4-Butanediol dimethacrylate</td>
<td>(CAS No) 2082-81-7</td>
<td>5 - 10</td>
<td>Skin Sens. 1B, H317</td>
</tr>
<tr>
<td>1,1,1-Trimethylolpropane trimethacrylate</td>
<td>(CAS No) 3290-92-4</td>
<td>1 - 2.5</td>
<td>Not classified</td>
</tr>
<tr>
<td>1,1’-(p-tolylimino)di propane-2-ol</td>
<td>(CAS No) 38668-48-3</td>
<td>1 - 2.5</td>
<td>Acute Tox. 2 (Oral), H300, Eye Irrit. 2A, H319, Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>boric acid</td>
<td>(CAS No) 10043-35-3</td>
<td>0.1 - 1</td>
<td>Repr. 1B, H360</td>
</tr>
<tr>
<td>4-tert-butylpyrocatechol</td>
<td>(CAS No) 98-29-3</td>
<td>0.1 - 1</td>
<td>Acute Tox. 4 (Oral), H302, Acute Tox. 4 (Dermal), H312, Skin Corr. 1B, H314, Skin Sens. 1, H317, Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures general
Remove/Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries after skin contact
May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
No additional information available

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Firefighting instructions
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures
Evacuate unnecessary personnel.

6.1.2. For emergency responders
Emergency procedures
Ventilate area.

6.2. Environmental precautions
No additional information available

6.3. Methods and material for containment and cleaning up
No additional information available

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
No additional information available

7.2. Conditions for safe storage, including any incompatibilities

Incompatible products
Strong bases. Strong acids.

Incompatible materials
Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information
The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.2. Exposure controls

Personal protective equipment
Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Thixotropic paste.</td>
</tr>
<tr>
<td>Colour</td>
<td>Light grey</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
### HIT-HY 150 MAX, A

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<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 109 °C DIN EN ISO 1523</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Product is not explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>1.74 g/cm³ DIN 66137-2</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not self-igniting</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>70 HN-0333</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

No additional information available

---

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

No additional information available

---

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
### 2-Hydroxypropyl methacrylate (27813-02-1)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 5000 mg/kg</td>
<td>&gt;= 5000 mg/kg bodyweight</td>
</tr>
<tr>
<td></td>
<td>(Rat; OECD 401: Acute Oral Toxicity; Literature study; &gt;=2000 mg/kg bodyweight; Rat; Experimental value)</td>
<td></td>
</tr>
</tbody>
</table>

### 1,4-Butanediol dimethacrylate (2082-61-7)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal rat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10066 mg/kg</td>
<td>&gt; 3000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>10066.000 mg/kg bodyweight</td>
<td></td>
</tr>
</tbody>
</table>

### 1,1,1-Trimethylolpropane trimethacrylate (329092-4)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal rat</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&gt; 5000 mg/kg</td>
<td>&gt; 3000 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>25 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

### Boric acid (1004335-3)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2660 mg/kg</td>
<td>&gt; 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>2660.000 mg/kg bodyweight</td>
<td></td>
</tr>
</tbody>
</table>

### 4-tert-butylpyrocatechol (98-29-3)

<table>
<thead>
<tr>
<th></th>
<th>LD50 oral rat</th>
<th>LD50 dermal rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>815 mg/kg bodyweight (Rat; Lethal; ECHA)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1331 mg/kg bodyweight (Rat; Lethal; ECHA)</td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>815.000 mg/kg bodyweight</td>
<td></td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>1331.000 mg/kg bodyweight</td>
<td></td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation
- Not classified

### Serious eye damage/irritation
- Causes serious eye irritation.

### Respiratory or skin sensitisation
- May cause an allergic skin reaction.

### Germ cell mutagenicity
- Not classified

### Carcinogenicity
- Not classified

### Quartz (14808-60-7)

| IARC group                | 1 - Carcinogenic to humans |

### Reproductive toxicity
- May damage fertility or the unborn child.

### Specific target organ toxicity (single exposure)
- Based on available data, the classification criteria are not met

### Specific target organ toxicity (repeated exposure)
- Not classified

### Aspiration hazard
- Not classified

### Potential adverse human health effects and symptoms
- Based on available data, the classification criteria are not met.

### Symptoms/injuries after skin contact
- May cause an allergic skin reaction.

---

**SECTION 12: Ecological information**

### 12.1. Toxicity**
### HIT-HY 150 MAX, A

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#### 2-Hydroxypropyl methacrylate (27813-02-1)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>493 mg/l (48 h; Leuciscus idus; GLP)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 143 mg/l (48 h; Daphnia magna; GLP)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>&gt; 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>&gt; 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)</td>
</tr>
</tbody>
</table>

#### 1,4-Butanediol dimethacrylate (2082-81-7)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>32.5 mg/l</td>
</tr>
<tr>
<td>LC50 other aquatic organisms 1</td>
<td>9.79 mg/l</td>
</tr>
<tr>
<td>NOEC (acute)</td>
<td>7.51 mg/l</td>
</tr>
<tr>
<td>NOEC (chronic)</td>
<td>20 mg/l</td>
</tr>
</tbody>
</table>

#### 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>2 mg/l</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>3.88 mg/l</td>
</tr>
<tr>
<td>NOEC chronic fish</td>
<td>0.138 mg/l</td>
</tr>
<tr>
<td>NOEC chronic crustacea</td>
<td>0.177 mg/l</td>
</tr>
</tbody>
</table>

#### 1,1’-(p-tolylimino)dipropan-2-ol (38668-48-3)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>= 17 mg/l</td>
</tr>
<tr>
<td>LC50 other aquatic organisms 1</td>
<td>245 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>28.8 mg/l</td>
</tr>
<tr>
<td>NOEC (acute)</td>
<td>57.8 mg/l</td>
</tr>
</tbody>
</table>

#### boric acid (10043-35-3)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>447 mg/l</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>658 - 875 mg/l (48 h; Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>19.7 mg/l (336 h; Daphnia magna)</td>
</tr>
<tr>
<td>TLM fish 1</td>
<td>1800 ppm (24 h; Gambusia affinis)</td>
</tr>
<tr>
<td>Threshold limit algae 1</td>
<td>5 mg/l (672 h; Elodea sp.)</td>
</tr>
<tr>
<td>Threshold limit algae 2</td>
<td>0.4 - 0.8,336 h; Chlorella sp.; Growth</td>
</tr>
</tbody>
</table>

#### 4-tert-butyl/Pyrocatechol (98-29-3)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>0.12 mg/l (96 h, Danio rerio, Lethal, ECHA)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; µg/l</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

**HIT-HY 150 MAX, A**

Persistence and degradability: Not established.

- **2-Hydroxypropyl methacrylate (27813-02-1)**
  - Persistence and degradability: Readily biodegradable in water. No (test)data on mobility of the substance available.

- **1,4-Butanediol dimethacrylate (2082-81-7)**
  - Biodegradation: 84 %

**boric acid (10043-35-3)**

- Persistence and degradability: Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.

**Biochemical oxygen demand (BOD)**

- Not applicable

**Chemical oxygen demand (COD)**

- Not applicable

**ThOD**

- Not applicable

**BOD (% of ThOD)**

- Not applicable

**4-tert-butyl/Pyrocatechol (98-29-3)**

- ThOD: 2.4 g O₂/g substance
12.3. Bioaccumulative potential

**HIT-HY 150 MAX, A**

<table>
<thead>
<tr>
<th>Bioaccumulative potential</th>
<th>Not established.</th>
</tr>
</thead>
</table>

2-Hydroxypropyl methacrylate (27813-02-1)

<table>
<thead>
<tr>
<th>BCF fish 1</th>
<th>&lt;= 100 (Pisces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 2</td>
<td>3.2 (Pisces; QSAR)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>0.97 (OECD 102: Melting Point/Melting Range)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

1,4-Butanediol dimethacrylate (2082-81-7)

| Log Pow | 3.1 |

1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)

| BCF fish 2 | 366 l/kg |
| Log Pow    | 3.53 |
| Log Kow    | 4.39 |

1,1’-(p-tolylimino)dipropan-2-ol (38668-48-3)

| BCF fish 1 | = |
| Log Kow    | 2.1 |

Boric acid (10043-35-3)

| BCF fish 1 | 0 (Salmo gairdneri (Oncorhynchus mykiss); Chronic) |
| BCF fish 2 | < 0.1 (60 days: Oncorhynchus tshawytscha; Fresh weight) |
| Log Pow    | -1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

4-tert-butylypyrocatechol (98-29-3)

| Log Pow | 2.94 (Estimated value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

**Boric acid (10043-35-3)**

Ecology - soil May be harmful to plant growth, blooming and fruit formation.

12.5. Other adverse effects

Effect on the global warming No known ecological damage caused by this product.

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1. UN number</td>
<td>Not regulated for transport</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
HIT-HY 150 MAX, A

Safety Data Sheet
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<table>
<thead>
<tr>
<th>ADR</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
<th>RID</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14.2. UN proper shipping name</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es)</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.4. Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>14.5. Environmental hazards</td>
<td>Dangerous for the environment : No</td>
<td>Dangerous for the environment : No</td>
<td>Dangerous for the environment : No</td>
<td>Dangerous for the environment : No</td>
</tr>
</tbody>
</table>

No supplementary information available

14.6. Special precautions for user

- Overland transport

- Transport by sea
No data available

- Air transport
No data available

- Inland waterway transport
Carriage prohibited (ADN) No
Not subject to ADN No

- Rail transport
Carriage prohibited (RID) No

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

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Compound</th>
<th>Description</th>
<th>Inventory Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (14808-60-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
</tr>
<tr>
<td>2-Hydroxypropyl methacrylate (27813-02-1)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
</tr>
<tr>
<td>1,4-Butanediol dimethacrylate (2082-81-7)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
</tr>
<tr>
<td>1,1′-(p-tolylimino)dipropan-2-ol (38668-48-3)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
</tr>
<tr>
<td>4-tert-butylpyrocatechol (98-29-3)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
<td></td>
</tr>
</tbody>
</table>

EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
15.2. International regulations

CANADA
No additional information available

EU-Regulations
No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Eye Irrit. 2  H319
Skin Sens. 1  H317
Full text of hazard classes and H-statements: see section 16

National regulations
Quartz (14808-60-7)
Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations
No additional information available

SECTION 16: Other information
Revision date 04/09/2015
Other information None.

Full text of H-statements:

<table>
<thead>
<tr>
<th>H-Statement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H300</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>
This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.