



Hilti (Canada) Corporation

MSDS No.: 255C  
 Revision No.: 007  
 Revision Date: 08/18/09  
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**MATERIAL SAFETY DATA SHEET**

**Product identifier:** HIT HY-150  
**Product description / use:** 2 part adhesive for anchoring into solid base material; e.g. concrete, grout, stone and solid masonry  
**Supplier:** Hilti (Canada) Corporation, 2360 Meadowpine Blvd., Mississauga, Ontario L5N 6S2  
**Originator:** Hilti, Inc., P. O. Box 21148, Tulsa, Oklahoma, USA 74121  
**Emergency number:** Chem-Trec: 1 800 424 9300

**INGREDIENTS INFORMATION**

Ingredient	CAS Number	% (wt.)	LC <sub>50</sub> , (rat)	LD <sub>50</sub> (rat)	TLV	STEL
<b>Part A: Resin</b>						
Quartz sand	14808-60-7	35 - 40	N/Av	N/Av	0.05 mg/m <sup>3</sup> (R)	N/E
Oxometallic acid salt ***	***	20 - 25	N/Av	N/Av	10 mg/ m <sup>3</sup> (N)	N/E
Urethane methacrylate resin ***	***	10 - 15	N/Av	N/Av	N/E	N/E
Methacrylate ester ***	***	10 - 15	N/Av	10,120 mg/kg	N/E	N/E
Hydroxypropyl methacrylate	27813-02-1	10 - 15	N/Av	11,200 mg/kg	N/E	N/E
Silica filled polydimethylsiloxane	67762-90-7	01 - 05	315 mg/m <sup>3</sup> / 4H	N/Av	2 mg/m <sup>3</sup>	N/E
<b>Part B: Hardener</b>						
Quartz sand	14808-60-7	55 - 60	N/Av	N/Av	0.1 mg/m <sup>3</sup>	N/E
Water	07732-18-5	25 - 30	N/Av	N/Av	N/E	N/E
Dibenzoyl peroxide	00094-36-0	05 - 10	N/Av	7,710 mg/kg	5 mg/m <sup>3</sup>	N/E
Amorphous silica (silica gel)	07631-86-9	01 - 05	N/Av	N/Av	10 mg/ m <sup>3</sup> (N)	N/E
Dipropylene glycol	25265-71-8	01 - 05	N/Av	14,850 mg/kg	N/E	N/E
Polyethylene	09002-88-4	01 - 05	N/Av	N/Av	N/E	N/E

\*\*\* HMIRC registration number 4187 granted; 9 November, 2000

**PHYSICAL PROPERTIES**

<b>Appearance / Odour :</b>	Grey paste. Ester-like odour.	<b>VOC Content:</b>	23.0 g/l
<b>Specific gravity (at 20°C):</b>	1.7	<b>Odour threshold:</b>	Not determined.
<b>Vapour pressure (at 20°C):</b>	Not applicable.	<b>Vapour density:</b>	Not applicable.
<b>Evaporation rate:</b>	Not determined.	<b>Boiling point:</b>	Approx. 100° C.
<b>Freezing point:</b>	Not determined.	<b>pH:</b>	6 - 7
<b>Coefficient of H<sub>2</sub>O / oil distrib:</b>	Not determined.	<b>Solubility in water:</b>	Part B is soluble.

**FIRE AND EXPLOSION DATA**

<b>Flash point / Method:</b>	> 93° C / DIN 53213	<b>Flammable limits:</b>	Not applicable.
<b>Conditions of flammability:</b>	Not applicable.	<b>Auto-ignition temperature:</b>	Not applicable.
<b>Means of extinction:</b>	Water, CO <sub>2</sub> , Dry Chemical, Foam.		
<b>Special fire fighting procedures:</b>	None known. A NIOSH-approved self-contained breathing apparatus (SCBA) should be worn when fighting fires involving chemicals.		
<b>Hazardous combustion products:</b>	Thermal decomposition products such as oxides of carbon and nitrogen can be produced under fire conditions.		
<b>Sensitivity to mechanical impact / static discharge:</b>	Not susceptible to mechanical impact or to a static discharge.		

**REACTIVITY DATA**

<b>Stability:</b>	Dibenzoyl peroxide begins to decompose (non-violently) at temperatures > 150° C.
<b>Conditions of reactivity:</b>	Extreme heat and direct sunlight. Due to the > 5% water content, ignition does not occur.
<b>Incompatible materials:</b>	Strong acids and oxidizing agents.
<b>Hazardous decomposition products:</b>	None known. Thermal decomposition can yield oxides of carbon and nitrogen.

## TOXICOLOGICAL PROPERTIES

<b>Routes of exposure:</b>	<input type="checkbox"/> N/Ap <input checked="" type="checkbox"/> Skin contact <input checked="" type="checkbox"/> Skin absorption <input checked="" type="checkbox"/> Eye contact <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion
<b>Exposure limits:</b>	See "Ingredients" section above.
<b>Acute effects of exposure:</b>	<b>Eyes</b> - Can cause irritation or watering but injury is unlikely. <b>Skin</b> - No effects expected. Irritation is possible with some individuals. <b>Inhalation</b> - No effects expected. <b>Ingestion</b> - Not a likely route of exposure. Considered to have a low acute oral toxicity. If large amounts are ingested, CNS depression, gastric irritation, nausea, etc. may occur.
<b>Chronic effects of exposure:</b>	Methacrylate esters can cause skin sensitization (e.g. rash, itching, reddening) with some individuals. IARC has classified silica as a Group 1 carcinogen based upon chronic exposure to silica dust. This product is an encapsulated paste and, therefore, does not pose a dust hazard. <i>In vitro</i> studies of quartz sand have shown mutagenic effects in mammalian and human cells. The nature and intended use of this product does not pose an increased risk to cancer or biological mutations.
<b>Synergistic materials:</b>	None known.

## FIRST AID MEASURES

<b>Eyes:</b>	Flush with plenty of water. Call a physician if symptoms occur.
<b>Skin:</b>	Wash with soap and water. Seek medical attention if any effects persist.
<b>Inhalation:</b>	Move victim to fresh air. Call a physician if symptoms persist.
<b>Ingestion:</b>	Do not induce vomiting unless directed by a physician. Contact a physician immediately.
<b>Other:</b>	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure

## PREVENTIVE MEASURES

<b>Engineering controls:</b>	General (natural or mechanically induced fresh air movements).
<b>Eye protection:</b>	Safety Glasses with side shields.
<b>Skin protection:</b>	Impermeable gloves recommended.
<b>Respiratory protection:</b>	None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges.
<b>Other:</b>	No additional measures are normally required.
<b>Handling procedures and equipment:</b>	Use with adequate ventilation. Do not get into the eyes. Avoid prolonged or repeated contact with the skin. Practice good hygiene; i.e., wash after using and before eating or smoking.
<b>Storage requirements:</b>	For industrial use only. Keep out of reach of children. Store in a cool dry area. Keep from freezing. Store between 5° and 25° C.
<b>Spill, leak or release:</b>	Immediately wipe away material before it hardens. Place in a container for proper disposal.
<b>Waste disposal:</b>	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, provincial, and federal safety, health and environmental regulations.
<b>Special shipping instructions:</b>	Avoid temperature extremes. Keep from freezing.

## REGULATORY INFORMATION

<b>WHMIS classification:</b>	C, D2A, D2B
<b>HMIS codes:</b>	Health 1, Flammability 1, Reactivity 1, PPE B
<b>TDG shipping name:</b>	Not regulated.

## PREPARATION INFORMATION / CONTACTS

<b>Prepared by:</b>	Hilti, Inc., Tulsa, OK USA	<b>Date of Preparation:</b> August 18, 2009	<b>Emergency phone number:</b> 1 800 424 9300
<b>Customer Service:</b>	Hilti (Canada) Corporation, Mississauga, Ontario; 1 800 363 4458		
<b>Health / Safety contacts:</b>	Hilti, Inc., Tulsa, OK USA; 1 800 879 6000, Jerry Metcalf (x1003704)		
<b>Abbreviations used:</b>	R = Respirable fraction. N = Nuisance dust. H = Hours. NE = None Established. N/Ap = Not Applicable. N/Av = Not Available. CNS = Central Nervous System. IARC: International Agency for Research on Cancer. HMIS: Hazardous Materials Identification System		

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