


MATERIAL SAFETY DATA SHEET

Product identifier: HIT- HY 150 MAX
Product description / use: Methacrylate resin and hardener. Part A is in the large tube; Part B is in the small tube
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 ₅₀ , (rat)	LD ₅₀ (rat)	TLV	STEL
Part A: Resin						
Quartz sand	14808-60-7	30-60	N/Av	N/Av	0.025 mg/m ³ (R)	N/Av
1,4 Butanediol dimethacrylate	2082-81-7	05-10	N/Av	N/Av	N/Av	N/Av
Part B: Hardener						
Quartz sand	14808-60-7	40-70	N/Av	N/Av	0.025 mg/m ³ (R)	N/Av
Aluminum oxide	1344-28-1	15-40	N/Av	>3600 mg/kg	1mg/m ³ (R)	N/Av
Dibenzoyl peroxide	94-36-0	05-10	N/Av	7,710 mg/kg	5 mg/m ³	N/Av
Amorphous silica	7631-86-9	01-05	N/Av	N/Av	N/Av	N/Av

Abbreviations: (R) indicates "as respirable dust". TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit.
 N/Av = Not Available.

PHYSICAL PROPERTIES

Appearance / Odor:	Grey paste. Sweet odor.	VOC Content:	7.0 g/l
Specific gravity (at 20°C):	1.8	Odor threshold:	Not determined.
Vapor pressure (at 20°C):	0 mm g	Vapor density:	Not determined.
Evaporation rate:	Not determined.	Boiling point:	Not determined.
Freezing point:	Not determined.	pH:	6 - 7
Coefficient of H₂O / oil distrib:	Not determined.	Solubility in water:	insoluable.

FIRE AND EXPLOSION DATA

Flash point / Method:	109° C / 228° F	Flammable limits:	Not applicable.
Conditions of flammability:	Not applicable.	Auto-ignition temperature:	Not determined.
Means of extinction:	Water, CO ₂ , Dry Chemical, Foam.		
Special fire fighting procedures:	None known. A NIOSH-approved self-contained breathing apparatus (SCBA) should be worn when fighting fires involving chemicals.		
Hazardous combustion products:	Thermal decomposition can yield CO, CO ₂ , and NO _x .		
Sensitivity to mechanical impact / static discharge:	Not susceptible to mechanical impact or to a static discharge.		

REACTIVITY DATA

Stability:	Dibenzoyl peroxide begins to decompose (non-violently) at temperatures > 150° C.
Conditions of reactivity:	Extreme heat and direct sunlight. Due to the > 5% water content, ignition does not occur.
Incompatible materials:	Strong acids and oxidizing agents.
Hazardous decomposition products:	None known. Thermal decomposition can yield CO, CO ₂ , and NO _x .

TOXICOLOGICAL PROPERTIES

Routes of exposure:	<input type="checkbox"/> N/Av <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
Exposure limits:	See "Ingredients" section above.

Acute effects of exposure:	Eyes - Can cause irritation or watering but injury is unlikely. Skin - No effects expected. Irritation is possible with some individuals. Inhalation - No effects expected. Ingestion - 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.
Chronic effects of exposure:	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. The nature and intended use of this product does not pose an increased risk to cancer or biological mutations.
Synergistic materials:	None known.

FIRST AID MEASURES

Eyes:	Flush immediately with plenty of water. Call a physician if symptoms occur.
Skin:	Wash with soap and water. Seek medical attention if any effects persist.
Inhalation:	No ill effects expected. Should discomfort occur, move to fresh air.
Ingestion:	Do not induce vomiting unless directed by a Physician. Contact a physician immediately.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure

PREVENTATIVE MEASURES

Engineering controls:	General (natural or mechanically induced fresh air movements).
Eye protection:	Safety glasses with side shields.
Skin protection:	Impermeable gloves recommended.
Respiratory protection:	None normally required.
Other:	No additional measures are normally required.
Handling procedures and equipment:	For industrial use only. Keep out of the reach of children. Use with adequate ventilation. Do not open foil pack. 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.
Storage requirements:	Store in a cool dry area and out of direct sunlight. Store between 5° and 25° C.
Spill, leak or release:	Immediately wipe away material before it hardens. Place in a container for proper disposal.
Waste disposal:	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, provincial, and federal safety, health and environmental regulations.
Special shipping instructions:	Avoid temperature extremes.
TDG shipping name	Not regulated

REGULATORY INFORMATION

WHMIS classification:	C, D2A
HMIS codes:	Health 1, Flammability 1, Reactivity 1, PPE B

PREPARATION INFORMATION / CONTACTS

Prepared by:	Hilti, Inc., Tulsa, OK USA	Date of Preparation: May 14, 2013	Emergency phone number: 1 800 424 9300
Customer Service:	Hilti (Canada) Corporation, Mississauga, Ontario; 1 800 363 4458		
Health / Safety contacts:	Hilti, Inc., Tulsa, OK USA; 1 800 879 6000, Jerry Metcalf (x1003704)		
Abbreviations used:	R = Respirable fraction. N = Nuisance dust. H = Hours. N/E = 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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