



Hilti (Canada) Corporation

 MSDS No.: 244C
 Revision No.: 008
 Prep. Date: 05/21/12
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MATERIAL SAFETY DATA SHEET

Product identifier: HIT-HY 20
Product description / use: Adhesive anchoring system for fastening into hollow base material as well as bricks and mortar
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						
Urethane methacrylate resin ***	***	25 - 30	N/Av	N/Av	N/E	N/E
Methacrylate ester ***	***	25 - 30	N/Av	10,120 mg/kg	N/E	N/E
Oxometallic acid salt ***	***	20 - 25	N/Av	N/Av	10 mg/ m ³ (N)	N/E
Fly ash	68131-74-8	10 - 15	N/Av	N/Av	10 mg/ m ³ (N)	N/E
Butyric acid ester ***	***	05 - 10	N/Av	N/Av	N/E	N/E
Silica filled polydimethylsiloxane	67762-90-7	01 - 05	315 mg/m ³ / 4H	N/Av	2 mg/m ³	N/E
Part B: Hardener						
Water	07732-18-5	50 - 55	N/Av	N/Av	N/E	N/E
Fly ash	68131-74-8	25 - 30	N/Av	N/Av	10 mg/ m ³ (N)	N/E
Dibenzoyl peroxide	00094-36-0	10 - 15	N/Av	7,710 mg/kg	5 mg/m ³	N/E
Amorphous silica (silica gel)	07631-86-9	01 - 05	N/Av	N/Av	10 mg/ m ³ (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 4186 granted; 9 November, 2000

PHYSICAL PROPERTIES

Appearance / Odour:	Grey paste. Ester-like odour.	VOC Content:	7.0 g/l
Specific gravity (at 20°C):	Pt. A: 1.2; Pt. B: 0.9	Odour threshold:	Not determined.
Vapour pressure (at 20°C):	Not applicable.	Vapour density:	Not applicable.
Evaporation rate:	Not determined.	Boiling point:	Approx. 100° C.
Freezing point:	Not determined.	pH:	6 - 7
Coefficient of H₂O / oil distrib:	Not determined.	Solubility in water:	Part B is soluble.

FIRE AND EXPLOSION DATA

Flash point / Method:	> 93° C / DIN 53213	Flammable limits:	Not applicable.
Conditions of flammability:	Not applicable.	Auto-ignition temperature:	Not applicable.
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 products such as oxides of carbon and nitrogen can be produced under fire conditions.		
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 oxides of carbon and nitrogen.

TOXICOLOGICAL PROPERTIES

Routes of exposure: N/Ap Skin contact Skin absorption Eye contact Inhalation 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. *In vitro* studies of fly ash have shown mutagenic effects in bacteria and mammalian cells. *In vivo* studies of occupational workers exposed to fly ash indicated somatic cell mutagenicity. The nature and intended use of this product does not pose an increased risk to users.

Synergistic materials: None known.

FIRST AID MEASURES

Eyes: Flush with plenty of water. Call a physician if symptoms occur.

Skin: Wash with soap and water. Seek medical attention if any effects persist.

Inhalation: Move victim to fresh air. Call a physician if symptoms persist.

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

PREVENTIVE MEASURES

Engineering controls: General (natural or mechanically induced fresh air movements).

Eye protection: Safety glasses with side shields recommended.

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 reach of children. 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.

Storage requirements: Store in a cool dry area. Keep from freezing. 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. Keep from freezing.

REGULATORY INFORMATION

WHMIS classification: C, D2A, D2B

HMIS codes: Health 1, Flammability 1, Reactivity 1, PPE B

TDG shipping name: Not regulated.

PREPARATION INFORMATION / CONTACTS

Prepared by: Hilti, Inc., Tulsa, OK USA **Date of Preparation:** May 21, 2012 **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: **N** = as 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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APPROVED MATERIAL

SEP 05 2012

MSDS # 11052

APPROVED BY *[Signature]*