



Hilti (Canada) Corporation

MSDS No.: 325C  
 Revision No.: 002  
 Revision Date: 05/22/12  
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**MATERIAL SAFETY DATA SHEET**

**Product identifier:** HTE 50 – High Strength Transportation Epoxy  
**Product description / use:** 2-part high strength epoxy adhesive for anchoring in concrete. (Part A is the larger tube)  
**Supplier:** Hilti (Canada) Corporation, 2360 Meadowpine Blvd., Mississauga, Ontario L5N 6S2  
**Originator:** Hilti, Inc., P. O. Box 21148, Tulsa, Oklahoma, USA 74121  
**Emergency phone number:** Chem-Trec: 1 800 424 9300

**INGREDIENTS INFORMATION**

Ingredient	CAS Number	% (wt.)	LC <sub>50</sub> , (rat)	LD <sub>50</sub> (rat)	TLV (mg/m <sup>3</sup> )	STEL(mg/m <sup>3</sup> )
<b>Part A:</b>						
Bisphenol A epoxy resin	25085-99-8	40-70	>791mg/m <sup>3</sup> 4hr	30,000 mg/kg	NE	NE
Ethylene glycol	107-21-1	01-05	NE	4700 mg/kg	NE	C100 mg/m <sup>3</sup>
Silica fume	7631-86-9	05-10	NE	NE	NE	NE
Quartz sand	14808-60-7	15-40	NE	NE	0.025 mg/ m <sup>3</sup>	NE
Titanium dioxide	13463-67-7	05-10	NE	NE	10 mg/ m <sup>3</sup>	NE
<b>Part B:</b>						
N-Aminoethylpiperazine	140-31-8	30-60	NE	2140 uL/kg	NE	NE
Nonylphenol	84852-15-3	30-60	NE	1300 mg/kg	NE	NE
Ethylene glycol	107-21-1	01-05	NE	4700 mg/kg	NE	C100 mg/m <sup>3</sup>
Silica fume	7631-86-9	05-10	NE	NE	NE	NE
Quartz sand	14808-60-7	15-40	NE	NE	0.025 mg/ m <sup>3</sup>	NE

**PHYSICAL PROPERTIES**

<b>Appearance / Physical state:</b>	Pt. A: White; Pt. B: Gray/ paste.	<b>Odour:</b>	Slight ammonia odour (Part B).
<b>Specific gravity (at 20°C):</b>	Pt. A: 1.6 ; Pt. B: 1.4	<b>VOC Content:</b>	Not determined
<b>Vapour pressure (at 20°C):</b>	Not determined.	<b>Vapour density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.	<b>Boiling point:</b>	> 100° C.
<b>Freezing point:</b>	Not determined.	<b>pH:</b>	Not determined.
<b>Coefficient of H<sub>2</sub>O / oil distrib:</b>	Not determined.	<b>Solubility in water:</b>	Insoluble.

**FIRE AND EXPLOSION DATA**

<b>Flash point :</b>	Part A > 120° C (245° F) Part B > 94° C (200° F)	<b>Flammable limits:</b>	Not applicable.
<b>Conditions of flammability:</b>	Not determined.	<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 CO, CO <sub>2</sub> , and NO <sub>x</sub> 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>	Stable.
<b>Conditions of reactivity:</b>	Contact with incompatible materials.
<b>Incompatible materials:</b>	Strong oxidizers, peroxides and acids.
<b>Hazardous decomposition products:</b>	None known. Thermal decomposition products such as oxides of carbon and nitrogen can be produced under fire conditions.

**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 checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion
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<b>Acute effects of exposure:</b>	<b>Part A:</b> Can be irritating to the eyes and skin. <b>Part B:</b> Corrosive; Can cause eye and skin burns. Vapors can be irritating. If swallowed, can cause burns.
<b>Chronic effects of exposure:</b>	Can cause skin sensitization in susceptible individuals.  The IARC has classified silica (quartz sand) as a Group 1 carcinogen based upon chronic exposure to silica dust via inhalation. This product does not pose a dust hazard; therefore, this classification is not relevant.  The IARC has determined that titanium dioxide is possibly carcinogenic to humans (Group 2B) based on inadequate evidence in humans and sufficient evidence in experimental animals. This conclusion relates to long-term inhalation exposure to high concentrations of pigmentary (powdered) or ultrafine titanium dioxide. This product does not pose a dust hazard; therefore, this classification is not relevant.
<b>Synergistic materials:</b>	None known.

#### FIRST AID MEASURES

<b>Eyes:</b>	Flush <b>immediately</b> with plenty of water. Contact a physician immediately.
<b>Skin:</b>	Wash immediately with soap and water. Contact a physician if any effects persist.
<b>Inhalation:</b>	If symptoms occur, move 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>	Splash-proof chemical goggles are recommended.
<b>Skin protection:</b>	Impermeable gloves recommended.
<b>Respiratory protection:</b>	None normally required.
<b>Other:</b>	No additional measures are normally required.
<b>Handling procedures and equipment:</b>	For industrial use only. Use with adequate ventilation. Practice good hygiene; i.e., wash after using and before eating or smoking.
<b>Storage requirements:</b>	Keep out of reach of children. Store in a cool dry area and out of direct sunlight. Store between 41 and 77° F (5 - 25° C). Do not use beyond expiration date shown on product packaging.
<b>Spill, leak or release:</b>	Scoop up spilled material and place in a metal container for proper disposal. Do not get into the eyes or on the skin. Wear appropriate personal protective equipment.
<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.

#### REGULATORY INFORMATION

<b>WHMIS classification:</b>	D2A, D2B
<b>HMIS codes:</b>	Part A: Health 2, Flammability 1, Reactivity 0, PPE B (Gloves, Glasses) Part B: Health 3, Flammability 1, Reactivity 0, PPE B (Gloves, Glasses)
<b>TDG shipping name (land):</b>	Consumer commodity, ORM-D
<b>IATA Shipping Name</b>	Corrosive Solids, n.o.s. (aminoethylpiperazine), class 8, UN1759, PGIII, Ltd Qty

#### PREPARATION INFORMATION / CONTACTS

<b>Prepared by:</b>	Hilti, Inc., Tulsa, OK USA	<b>Date of Preparation:</b>	May 22, 2012	<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>	<b>N/E</b> = None Established. <b>C</b> = Ceiling. <b>R</b> = as "respirable dust". <b>IARC:</b> International Agency for Research on Cancer. <b>HMIS:</b> Hazardous Materials Information System. <b>TLV:</b> ACGIH Threshold Limit Values. <b>STEL:</b> ACGIH Short Term Exposure Limit.				

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