



Hilti (Canada) Corporation

MSDS No.: 260C
 Revision No.: 008
 Revision Date: 06/25/09
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MATERIAL SAFETY DATA SHEET

Product identifier: HVU Adhesive Capsules
Product description / use: 2 part foil-encapsulated adhesive anchoring system
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 ₅₀ , (rat)	LD ₅₀ (rat)	TLV	STEL
Part A:						
Silicon dioxide (quartz sand)	14808-60-7	70 - 80	N/Av	N/Av	0.025 (R) mg/m ³	N/E
Urethane methacrylate resin	Confidential *	05 - 10	N/Av	N/Av	N/E	N/E
Methacrylate ester	Confidential *	05 - 10	N/Av	N/Av	N/E	N/E
Hydroxypropyl methacrylate (HPMA)	27813-02-1	05 - 10	N/Av	11,200 mg/kg	NE	N/E
Silica filled polydimethylsiloxane	67762-90-7	01 - 05	N/Av	N/Av	NE	N/E

Part B:						
Dicyclohexyl phthalate	00084-61-7	01 - 05	N/Av	41,490 mg/kg	N/E	N/E
Dibenzoyl peroxide	00094-36-0	0.5 - 1.5	N/Av	7,710 mg/kg	5 mg/m ³	N/E

* HMIRC registration number 5756 granted; 14 February, 2006

PHYSICAL PROPERTIES

Appearance / Physical state:	Sealed foil capsule.	Odour:	Ester-like.
Specific gravity (at 20°C):	1.1 - 1.3	VOC content:	78.5 g/l
Vapour pressure (at 20°C):	Not applicable.	Vapour density:	Not applicable.
Evaporation rate:	Not determined.	Boiling point:	Not determined.
Freezing point:	Not determined.	pH:	Not determined.
Coefficient of H₂O / oil distrib:	Not determined.	Solubility in water:	Pt. A: soluble; Pt. B: insoluble.

FIRE AND EXPLOSION DATA

Flash point / Method:	> 200° F (100° C) / DIN 53 213	Flammable limits:	Not applicable.
Conditions of flammability:	Not determined.	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 polymerizes / decomposes at temperatures above 50° C.
Conditions of reactivity:	High temperatures and incompatible materials.
Incompatible materials:	Strong oxidizers, peroxides and acids.
Hazardous decomposition products:	When stored at temperatures greater than 30° C, dibenzoyl peroxide can begin to release carbon dioxide. This will cause swelling of the foil pouches.

TOXICOLOGICAL PROPERTIES

Routes of exposure:	<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
Acute effects of exposure:	Eyes: Can cause temporary discomfort (itching, dryness, redness, etc.). Skin: No effects expected from normal use. Sensitization is possible with some individuals. HPMA causes irritation and can be absorbed through the skin. Inhalation: No effects expected. Ingestion: Not a likely route of exposure. Ingestion of HPMA can cause CNS depression.
Exposure limits:	See "Ingredients" section above.
Chronic effects of exposure:	Can cause skin sensitization in susceptible individuals. IARC has classified silica as a Group 1 carcinogen based upon chronic exposure to silica dust. <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.
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

PREVENTIVE MEASURES

Engineering controls:	General (natural or mechanically induced fresh air movements).
Eye protection:	Safety glasses with side shields are recommended.
Skin protection:	Impermeable (rubber or neoprene) 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 open foil capsule. 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. Do not store above 77° F (25° C). Do not use beyond expiration date shown on the box label.
Spill, leak or release:	Immediately wipe away spilled material before it hardens. Do not get into the eyes or on the skin. Wear appropriate personal protective equipment. 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:	D2A, D2B
HMIS codes:	Health 3, Flammability 1, Reactivity 1, PPE B (Gloves, Glasses)

PREPARATION INFORMATION / CONTACTS

Prepared by:	Hilti, Inc., Tulsa, OK USA	Date of Preparation:	June 25, 2009	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/E = None Established. N/A = Not Applicable. N/Av = Not Available. CNS = central nervous system. IARC: International Agency for Research on Cancer. HMIS: Hazardous Materials Information System				

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