



Hilti (Canada) Corporation

MSDS No.: 318C
 Revision No.: 002
 Revision Date: 05/22/12
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MATERIAL SAFETY DATA SHEET

Product identifier: HIT-RE 500 SD
Product description / use: High strength epoxy adhesive for anchoring in concrete and rebar doweling. Part A is the large tube; Part B is 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 phone number: Chem-Trec: 1 800 424 9300

INGREDIENTS INFORMATION

Ingredient	CAS Number	% (wt.)	LC ₅₀ , (rat)	LD ₅₀ (rat)	TLV (mg/m ³)	STEL(mg/m ³)
Part A:						
Bisphenol A epoxy resin	25068-38-6	30 - 40	791 mg/m ³ 4H	30,000 mg/kg	N/E	N/E
Quartz sand	14808-60-7	30 - 40	N/Av	N/Av	0.025 (R)	N/E
Bisphenol F epoxy resin	28064-14-4	10 - 20	N/Av	N/Av	N/E	N/E
Alkylglycidyl ether	proprietary *	10 - 20	N/Av	N/Av	N/E	N/E
Diglycidyl ether	proprietary *	05 - 10	N/Av	N/Av	N/E	N/E
Siloxanes & silicones	67762-90-7	01 - 05	N/Av	N/Av	N/E	N/E
Part B:						
m-xylene diamine	01477-55-0	30 - 40	700 ppm/1H	930 mg/kg	C: 0.1 / S	N/E
Aliphatic polyamine	proprietary *	20 - 30	N/Av	N/Av	N/E	N/E
Quartz sand	14808-60-7	20 - 30	N/Av	N/Av	0.025 (R)	N/E
Cement	65997-16-2	05 - 10	N/Av	N/Av	N/E	N/E
Aluminum oxide	01344-28-1	05 - 10	N/Av	>3600 mg/kg	NA (10)	N/E
Siloxanes & silicones	67762-90-7	01 - 05	N/Av	N/Av	N/E	N/E

* HMIRC registration pending

PHYSICAL PROPERTIES

Appearance / Physical state:	Pt. A: Gray; Pt. B: red / paste.	Odour:	Amine-like (Part B).
Specific gravity (at 20°C):	1.5	VOC Content:	4.0 g/l
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:	11 (Pt. B with 1:1 water)
Coefficient of H₂O / oil distrib:	Not determined.	Solubility in water:	Insoluble.

FIRE AND EXPLOSION DATA

Flash point / Method:	> 100° C (200° F) / 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:	Stable.
Conditions of reactivity:	Contact with incompatible materials.
Incompatible materials:	Strong oxidizers, peroxides and acids.
Hazardous decomposition products:	None known. Thermal decomposition products such as oxides of carbon and nitrogen can be produced under fire conditions.

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 checked="" type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion
Acute effects of exposure:	Part A: Can be irritating to the eyes and skin. Part B: Corrosive; Can cause eye and skin burns. Vapors can be irritating. If swallowed, can cause burns.
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 immediately with soap and water. Seek medical attention if any effects persist.
Inhalation:	If symptoms occur, move 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 are 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. Use with adequate ventilation. Practice good hygiene; i.e., wash after using and before eating or smoking.
Storage requirements:	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.
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.

REGULATORY INFORMATION

WHMIS classification:	D2A, D2B, E
HMIS codes:	Health 3, Flammability 1, Reactivity 1, PPE B (Gloves, Glasses)
TDG shipping name (land):	Consumer commodity, ORM-D

PREPARATION INFORMATION / CONTACTS

Prepared by:	Hilti, Inc., Tulsa, OK USA	Date of Preparation: May 22, 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/E = None Established. N/Av = Not Available. C = Ceiling. R = as "respirable dust". S = Skin exposure including the mucous membranes, eyes, and skin. IARC: International Agency for Research on Cancer. HMIS: Hazardous Materials Information System. TLV: ACGIH Threshold Limit Values. STEL: ACGIH Short Term Exposure Limit.			

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