



MSDS No.: 318  
Revision No.: 002  
Revision Date: 05/17/12  
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## MATERIAL SAFETY DATA SHEET

**Product name:** HIT-RE 500 SD  
**Description:** 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, Inc. P.O. Box 21148, Tulsa, OK 74121  
**Emergency # (Chem-Trec.):** 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

## INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	TLV:	PEL:	STEL:
<b>Part A:</b> Bisphenol A epoxy resin	25068-38-6	NE	NE	NE
Bisphenol F epoxy resin	28064-14-4	NE	NE	NE
Quartz sand	14808-60-7	0.025 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup> % SiO <sub>2</sub> + 2	NE
Alkylglycidyl ether	19136100-5012 *	NE	NE	NE
Diglycidyl ether	19136100-5013 *	NE	NE	NE
Siloxanes & silicones	67762-90-7	NE	NE	NE
<b>Part B:</b> m-xylene diamine	01477-55-0	NE	NE	C: 0.1 / S
Aliphatic polyamine	19136100-5014 *	NE	NE	NE
Quartz sand	14808-60-7	0.025 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup> % SiO <sub>2</sub> + 2	NE
Aluminum oxide	01344-28-1	1 mg/m <sup>3</sup> (R)	15 mg/m <sup>3</sup> (T)	NE
Cement	65997-16-2	NE	NE	NE
Siloxanes & silicones	67762-90-7	NE	NE	NE

**Abbreviations:** \* = indicates New Jersey Trade Secret Registry Number. **C** = Ceiling. **NE** = None Established. **R** =dust "respirable" fraction. **S** = Skin exposure, including the mucous membranes, eyes, and skin. **T** = "total" dust. **TLV** = ACGIH Threshold Limit Values. **PEL** = OSHA Permissible Exposure Limits. **STEL** = ACGIH/OSHA Short Term Exposure Limit

## PHYSICAL DATA

<b>Appearance and Odor:</b>	A: Gray; B: red / paste. Amine-like odor.	<b>VOC Content:</b>	4.0 g/l
<b>Boiling Point:</b>	Approx. 212° F	<b>Vapor Pressure:</b>	Not determined.
<b>Vapor Density: (air = 1)</b>	Not determined.	<b>Odor Threshold:</b>	Not determined
<b>Evaporation Rate:</b>	Not applicable.	<b>Solubility in Water:</b>	Insoluble .
<b>Specific Gravity:</b>	1.5	<b>pH:</b>	11 (Part B with 1:1 water)

## FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point:</b>	> 200° F	<b>Flammable Limits:</b>	Not applicable.
<b>Extinguishing Media:</b>	CO <sub>2</sub> , Dry Chemical, Foam, Water Spray.		
<b>Special Fire Fighting Procedures:</b>	A self-contained breathing apparatus should be worn when fighting fires involving chemicals.		
<b>Unusual Fire and Explosion Hazards:</b>	None known. Thermal decomposition products can be formed including CO <sub>x</sub> , NO <sub>x</sub> , water and carbon.		

## REACTIVITY DATA

<b>Stability:</b>	Stable.	<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibility:</b>	Strong acids and oxidizing agents.		
<b>Decomposition Products:</b>	Thermal decomposition can yield CO <sub>x</sub> , NO <sub>x</sub> , water and carbon.		
<b>Conditions to Avoid:</b>	Avoid temperature extremes that could shorten the shelf-life of this product. (See handling and storage requirements for recommended storage temperatures).		

## HEALTH HAZARD DATA

<b>Known Hazards:</b>	<b>Part A:</b> Eye and skin irritation. Possible skin sensitizer. <b>Part B:</b> Corrosive		
<b>Signs and Symptoms of Exposure:</b>	<b>Part A:</b> Can be irritating to the eyes and skin, Can cause skin sensitization with some individuals (itching, redness, swelling). <b>Part B:</b> Can cause eye and skin burns. Vapors can be irritating. If		

<b>Routes of Exposure:</b>	swallowed, can cause burns. Contact. Inhalation.
<b>Carcinogenicity:</b>	IARC classifies crystalline silica (quartz sand) as a Group I carcinogen based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalation) to silica dust; e.g. mining, quarry, stone crushing, refractory brick and pottery workers. This product does not pose a dust hazard; therefore, this classification is not relevant.
<b>Medical Conditions Aggravated by Exposure:</b>	Eye, skin, and respiratory conditions.

### EMERGENCY AND FIRST AID PROCEDURES

<b>Eyes:</b>	Flush <b>immediately</b> with water for at least 15 minutes. Contact a Physician if symptoms occur.
<b>Skin:</b>	Wash <b>immediately</b> with soap and water. Contact a Physician if symptoms occur.
<b>Inhalation:</b>	If symptoms occur, move to fresh air. Contact a Physician if symptoms occur.
<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

### CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

<b>Ventilation:</b>	General (natural or mechanically induced fresh air movements).
<b>Eye Protection:</b>	Chemical Goggles recommended.
<b>Skin Protection:</b>	Impermeable gloves recommended. Other protective clothing as required to prevent skin contact.
<b>Respiratory Protection:</b>	None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges.

### PRECAUTIONS FOR SAFE HANDLING AND USE

<b>Handling and Storing Precautions:</b>	For industrial use only. Keep away from children. Use with adequate ventilation. Avoid contact with the eyes or skin. Practice good hygiene; i.e. wash after using and before eating or smoking. Store in a cool dry area between 41° and 77° F (5 - 25° C). Keep from freezing.
<b>Spill Procedures:</b>	Take up with an absorbent material and place in a container for proper disposal.

### REGULATORY INFORMATION

<b>Hazard Communication:</b>	This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200.
<b>HMIS Codes:</b>	Health 3, Flammability 1, Reactivity 0, PPE B
<b>DOT Shipping Name:</b>	Limited Quantity - LQ
<b>IATA / ICAO Shipping Name:</b>	Amines, solid, corrosive, n.o.s. (M-xylenediamine), Class 8, UN3259, PG II
<b>TSCA Inventory Status:</b>	Chemical components listed on TSCA inventory.
<b>SARA Title III, Section 313:</b>	This product does not contain any toxic chemicals which are subject to reporting under Section 313 of SARA Title III (40 CFR Part 372).
<b>EPA Waste Code(s):</b>	Not regulated by EPA as a hazardous waste
<b>Waste Disposal Methods:</b>	Consult with regulatory agencies or your corporate personnel for disposal methods that comply with local, state, and federal safety, health and environmental regulations.

### CONTACTS

<b>Customer Service:</b>	1 800 879 8000	<b>Technical Service:</b>	1 800 879 8000
<b>Health / Safety:</b>	1 800 879 6000	Jerry Metcalf	(x1003704)
<b>Emergency # (Chem-Trec):</b>	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

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