



MATERIAL SAFETY DATA SHEET

Product name: HIT-RE 500
Description: High strength adhesive for anchoring in concrete. (Part A is the larger 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)

For: DIAMOND B CONSTRUCTORS INC
 3436 AIRPORT DR
 BELLINGHAM, WA 98226-8068

INGREDIENTS AND EXPOSURE LIMITS

Ingredients:	CAS Number:	TLV: (mg/m ³)	PEL: (mg/m ³)	STEL:
Part A: 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	NA (0.05 / R)	NA (0.1 / T)	NE
Alkylglycidyl ether	19136100-5012 *	NE	NE	NE
Diglycidyl ether	19136100-5013 *	NE	NE	NE
Synthetic amorphous silica	07631-86-9	NA (10 / R)	NA (20 mppcf)	NE
Part B: m-xylene diamine	01477-55-0	C: 0.1 / S	C: 0.1 / S	NE
Aliphatic polyamine	19136100-5014 *	NE	NE	NE
Quartz sand	14808-60-7	NA (0.05 / R)	NA (0.1 / T)	NE
Aluminum oxide	01344-28-1	NA (10)	NA (15 / T)	NE
Cement	65997-16-2	NA (10)	NA (15 / T)	NE
Amorphous silica	07631-86-9	NA (10 / R)	NA (20 mppcf)	NE

Abbreviations: NJ TSRN indicates New Jersey Trade Secret Registry Number. C = Ceiling. NE = None Established. NA = Not Applicable. R = "respirable" fraction. S = Skin; i.e. exposure should be controlled for the cutaneous routes including the mucous membranes, eyes, and skin. T = "total" dust. mppcf = million particles per cubic foot.

PHYSICAL DATA

Appearance:	A: Gray; B: red / paste.	Odor:	Amine-like odor.
Vapor Density: (air = 1)	Not determined.	Vapor Pressure:	Not applicable.
Boiling Point:	Approx. 212 ° F	VOC Content:	34.8 g/l
Evaporation Rate:	Not applicable.	Solubility in Water:	Insoluble .
Specific Gravity:	1.5	pH:	11 (Part B with 1:1 water)

FIRE AND EXPLOSION HAZARD DATA

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

REACTIVITY DATA

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

HEALTH HAZARD DATA

Known Hazards: **Part A:** Eye and skin irritation. Possible skin sensitizer. **Part B:** Corrosive

Signs and Symptoms of Exposure:	Part A: Can be irritating to the eyes and skin, Can cause skin sensitization with some individuals (itching, redness, swelling). Part B: Can cause eye and skin burns. Vapors can be irritating. If swallowed, can cause burns.
Routes of Exposure:	Contact. Inhalation.
Carcinogenicity:	IARC classifies crystalline silica (quartz sand) as a Gp 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.
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush immediately with low pressure water for at least 15 minutes. Seek medical advice.
Skin:	Wash immediately with soap and water. Launder contaminated clothing before reuse.
Inhalation:	If symptoms occur, move to fresh air. Call a physician if symptoms persist.
Ingestion:	Rinse mouth and then drink large quantities of water. Never give anything by mouth to an unconscious person. Seek medical attention. Do not induce vomiting unless directed by a physician.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Safety glasses with side shields.
Skin Protection:	Impermeable (neoprene or rubber) gloves recommended.
Respiratory Protection:	None normally required. Where ventilation is inadequate to control vapors, use a NIOSH-approved respirator with organic vapor cartridges. Never enter a confined space without an appropriate air supplied respirator. If dusts are generated during demolition or removal, wear an appropriate dust mask or respirator.

PRECAUTIONS FOR SAFE HANDLING AND USE

Handling and Storing Precautions:	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.
Spill Procedures:	Take up with an absorbent material and place in a container for proper disposal.

REGULATORY INFORMATION

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

CONTACTS

Customer Service:	1 800 879 8000	Technical Service:	1 800 879 8000
Health / Safety:	1 800 879 6000	Jerry Metcalf	(x6704)
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided.

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 JUL 11 2011
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