



MSDS No.: 318
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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:
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	0.025 mg/m ³ (R)	10 mg/m ³ % SiO ₂ + 2	NE
Alkylglycidyl ether	19136100-5012 *	NE	NE	NE
Diglycidyl ether	19136100-5013 *	NE	NE	NE
Siloxanes & silicones	67762-90-7	NE	NE	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	0.025 mg/m ³ (R)	10 mg/m ³ % SiO ₂ + 2	NE
Aluminum oxide	01344-28-1	10 mg/m ³	15 mg/m ³ (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

Appearance and Odor:	A: Gray; B: red / paste. Amine-like odor.	VOC Content:	0.0 g/l
Boiling Point:	Approx. 212° F	Vapor Pressure:	Not determined.
Vapor Density: (air = 1)	Not determined.	Odor Threshold:	Not determined
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 Spray.		
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		

Routes of Exposure:	swallowed, can cause burns. Contact. Inhalation.
Carcinogenicity:	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.
Medical Conditions Aggravated by Exposure:	Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush immediately with water for at least 15 minutes. Contact a Physician if symptoms occur.
Skin:	Wash immediately with soap and water. Launder contaminated clothing before reuse. Seek medical attention if any symptoms occur.
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

CONTROL MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation:	General (natural or mechanically induced fresh air movements).
Eye Protection:	Safety glasses with side shields recommended.
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.

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, solid, corrosive, n.o.s. (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)		

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