



MSDS No.: 325
Revision No.: 002
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MATERIAL SAFETY DATA SHEET

Product name: HTE 50 - High Strength Transportation Epoxy
Description: High strength adhesive for anchoring in concrete. (Part A is the large 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	25085-99-8	NE	NE	NE
Ethylene glycol	107-21-1	NE	NE	C100
Silica fume	7631-86-9	NE	NE	NE
Quartz sand	14808-60-7	0.025 mg/m ³ (R)	$\frac{10 \text{ mg/m}^3 \text{ (R)}}{\% \text{ SiO}_2 + 2}$	NE
Titanium dioxide	13463-67-7	10 mg/m ³	15 mg/m ³ (T)	NE
Part B: N-Aminoethylpiperazine	140-31-8	NE	NE	NE
Nonylphenol	84852-15-3	NE	NE	NE
Ethylene glycol	107-21-1	NE	NE	C100
Silica fume	7631-86-9	NE	NE	NE
Quartz sand	14808-60-7	0.025 mg/m ³ (R)	$\frac{10 \text{ mg/m}^3 \text{ (R)}}{\% \text{ SiO}_2 + 2}$	NE

Abbreviations: C = Ceiling. NE = None Established. R =dust "respirable" fraction. 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: white; B: gray / paste. Slight ammonia odor.	VOC Content:	Not determined
Boiling Point:	> 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:	Part A: 1.6 Part B:1.4	pH:	Not determined

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	Part A > 245° F Part B >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, CO ₂ and NO _x .		
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 Group I carcinogen based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalation) to silica dust. This product does not pose a dust hazard; therefore, this classification is not relevant. The IARC has determined that titanium dioxide is possibly carcinogenic to humans (Group 2B) based on inadequate evidence in humans and sufficient evidence in experimental animals. This conclusion relates to long-term inhalation exposure to high concentrations of pigmentary (powdered) or ultrafine titanium dioxide. 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 immediately.
Skin:	Wash immediately with soap and water. Launder contaminated clothing before reuse. Contact a Physician if any symptoms occur.
Inhalation:	Move victim to fresh air. Contact 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:	Chemical goggles recommended.
Skin Protection:	Impermeable (neoprene or rubber) gloves recommended. Other protective clothing as required to prevent skin contact with the adhesive.
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:	Scoop up spilled material and place in a metal 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:	Part A: Health 2, Flammability 1, Reactivity 0, PPE B Part B: Health 3, Flammability 1, Reactivity 0, PPE B
DOT Shipping Name:	Limited Quantity - LQ
IATA / ICAO Shipping Name:	Corrosive Solids, n.o.s. (aminoethylpiperazine), Class 8, UN1759, PG III, Ltd Qty
TSCA Inventory Status:	Chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product contains >2% quartz silica which is 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	(x1003704)
Emergency # (Chem-Trec):	1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)		

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