



MSDS No.: 338
Revision No.: 000
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Page: 1 of 2

MATERIAL SAFETY DATA SHEET

Product name: HIT-HY 70
Description: Methacrylate adhesive mortar for anchor and rebar fastenings.
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: Urethane Methacrylate Resin	NJ TSRN: 191361-5028	NE	NE	NE
Acrylic acid ester	27813-02-1	NE	NE	NE
Ester of methacrylic acid	43048-08-4	NE	NE	NE
Methacrylic acid ester	3290-92-4	NE	NE	NE
Boric acid	10043-35-3	2 mg/m ³ (I)	NE	6 mg/m ³ (I)
Quartz sand	14808-60-7	0.025 mg/m ³ (R)	<u>10 mg/m³ (R)</u> % SiO ₂ + 2	NE
Part B: Quartz sand	14808-60-7	0.025 mg/m ³ (R)	<u>10 mg/m³ (R)</u> % SiO ₂ + 2	NE
Dibenzoyl peroxide	000094-36-0	5 mg/m ³	5 mg/m ³	NE
Amorphous silica	007631-86-9	NE	NE	NE

Abbreviations: NJ TSRN indicates New Jersey Trade Secret Registry Number. PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. R = Respirable Fraction. I = Inhalable fraction of aerosol. NE = None Established. NA = Not Applicable.

PHYSICAL DATA

Appearance and Odor:	Light gray paste. Ester-like odor.	VOC Content	24.0 g/l
Boiling Point:	Not determined.	Vapor Pressure:	Not determined.
Vapor Density:	Not applicable.	Odor Threshold:	Not determined.
Evaporation Rate:	Not determined.	Solubility in Water:	Insoluble.
Specific Gravity:	1.7	pH:	6 (Part B)

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 212° F	Flammable Limits:	Not applicable.
Extinguishing Media:	Carbon Dioxide, Dry Chemical, Foam, Water.		
Special Fire Fighting Procedures:	Use a self-contained breathing apparatus when fighting fires involving chemicals.		
Unusual Fire and Explosion Hazards:	None known. Thermal decomposition products can be formed.		

REACTIVITY DATA

Stability:	Dibenzoyl peroxide decomposes (non-violently) at 150° F. Ignition does not occur due to the water content.
Hazardous Polymerization:	Will not occur
Incompatibility:	No incompatible materials known. Do not store in direct sunlight.
Hazardous Decomposition Products:	Thermal decomposition can yield CO, NO _x , and CO ₂ .
Conditions to Avoid:	Temperature extremes will shorten product shelf life.

HEALTH HAZARD DATA

Known Hazards:	Can cause irritation. Possible sensitization.
Signs and Symptoms of Exposure:	Eyes: Can cause irritation. Skin: Can cause irritation. Repeated contact may cause sensitization. ching, reddening) can occur with some individuals; e.g. itching, redness, swelling, etc. Inhalation: No ill effects expected. Irritation is possible. Ingestion: Not a likely route of exposure.

Routes of Exposure:	Dermal.
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 with plenty of water. Contact a physician if symptoms occur.
Skin:	Wash with soap and water. Launder contaminated clothing before reuse.
Inhalation:	Move victim 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. If sensitization occurs, future contact with the material should be avoided.

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:	Store in a cool, dry area preferably between 40° and 77° F. Do not store in direct sunlight. Avoid prolonged or repeated contact. Use with adequate ventilation. Always wash thoroughly after handling chemical products. For industrial use only. Keep out of reach of children.
Spill Procedures:	Cover with an absorbent material and place in a salvage container for proper disposal. If possible, mix parts A and B and allow product to cure (harden).

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 1, Flammability 1, Reactivity 1, PPE B
DOT Shipping Name:	Not regulated.
IATA / ICAO Shipping Name:	Not regulated.
TSCA Inventory Status:	All chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product contains 5 - 10% Benzoyl peroxide (CAS # 94-36-0), 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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