



MATERIAL SAFETY DATA SHEET

Product name: HIT HY 150
Description: Methacrylate resin and hardener. Part A is in the large tube; Part B is in the small one.
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: 19136100-5001	NE	NE	NE
Methacrylate ester	NJ TSRN: 19136100-5005	NE	NE	NE
Hydroxypropyl methacrylate	27813-02-1	NE	NE	NE
Quartz sand	14808-60-7	0.05 mg/m ³ (R)	0.1 mg/m ³ (R)	NE
Bonding agent	NJ TSRN: 19136100-5003	10 mg/m ³ (N)	NE	NE
Synthetic amorphous silica	67762-90-7	2 mg/m ³	NE	NE
Part B: Quartz sand	14808-60-7	0.05 mg/m ³ (R)	0.1 mg/m ³ (R)	NE
Water	07732-18-5	NE	NE	NE
Dibenzoyl peroxide	00094-36-0	5 mg/m ³	5 mg/m ³	NE
Amorphous silica	07631-86-9	10 mg/m ³ (N)	20 mppcf	NE
Dipropylene glycol	25265-71-8	NE	NE	NE
Polyethylene	09002-88-4	NE	NE	NE

Abbreviations: NJ TSRN indicates New Jersey Trade Secret Registry Number. (R) indicates "as respirable dust". (N) indicates "as nuisance dust". PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit (15 minute time-weighted average). NE = None Established. mppcf = million particles per cubic foot.

PHYSICAL DATA

Appearance and Odor:	Gray paste. Ester-like odor.	VOC Content	35.7 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:	Part B is soluble
Specific Gravity:	1.7	pH:	6 - 7

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:	Soak cartons to help prevent the spread of fire. 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 (> 5%).
Hazardous Polymerization:	Will not occur.
Incompatibility:	Strong acids and oxidizing agents. Do not store in direct sunlight.
Decomposition Products:	Thermal decomposition can yield CO, CO ₂ and NO _x .
Conditions to Avoid:	Avoid temperature extremes which could shorten the shelf-life of this product; i.e. below freezing and above 100° F. (See handling and storage requirements).

HEALTH HAZARD DATA

Known Hazards:	Eye and skin irritation. Possible sensitizer.
Signs and Symptoms of Exposure:	Eyes: can cause irritation. Skin: Prolonged and repeated contact can cause irritation. An allergic skin reaction (e.g. rash, itching, reddening) can occur with some individuals. Inhalation: Possible irritation. Ingestion: Not a likely route of exposure. Considered to have a low acute oral toxicity.
Routes of Exposure:	Contact. Inhalation.
Carcinogenicity:	IARC classifies crystalline silica (quartz sand) as a Gp I carcinogen based upon evidence among

**Medical Conditions
Aggravated by Exposure:**

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.

Eye, skin, and respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES

Eyes:	Flush with plenty of water. Call a physician if symptoms occur.
Skin:	Wash with soap and water.
Inhalation:	Move victim to fresh air. Call a physician if symptoms persist.
Ingestion:	Contact a physician immediately. 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 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:	Store in a cool, dry area preferably between 40° and 77° F. Do not store in direct sunlight. Keep away from open flames, heat sources and sparks. 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:	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 1, Flammability 1, Reactivity 1, PPE B
DOT Shipping Name:	Not regulated.
IATA / ICAO Shipping Name:	Not regulated.
TSCA Inventory Status:	Urethane methacrylate resin – USEPA Accession Number 238392. All other 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	(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.