



MSDS No.: 244
Revision No.: 009
Revision Date: 07/10/08
Page: 1 of 2

MATERIAL SAFETY DATA SHEET

Product name: HIT-HY 20
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
Bonding agent	NJ TSRN: 19136100-5003	10 mg/m ³ (N)	NE	NE
Methacrylate ester	NJ TSRN: 19136100-5005	NE	NE	NE
Fly ash	068131-74-8	10 mg/m ³ (N)	NE	NE
Butyric acid ester	NJ TSRN: 19136100-5002	NE	NE	NE
Synthetic amorphous silica	067762-90-7	2 mg/m ³	NE	NE
Part B: Fly ash	068131-74-8	10 mg/m ³ (N)	NE	NE
Dibenzoyl peroxide	000094-36-0	5 mg/m ³	5 mg/m ³	NE
Amorphous silica	007631-86-9	10 mg/m ³ (N)	20 mppcf	NE
Dipropylene glycol	025265-71-8	NE	NE	NE
Polyethylene	009002-88-4	NE	NE	NE
Water	007732-18-5	NE	NE	NE

Abbreviations: NJ TSRN indicates New Jersey Trade Secret Registry Number. N indicates "as nuisance dust". PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. mppcf = million particles per cubic foot.

PHYSICAL DATA

Appearance and Odor:	Gray paste. Ester-like odor.	VOC Content	37.1 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:	Part B is soluble.
Specific Gravity:	Part. A: 1.2; Part. B: 0.9	pH:	5 (Part B)

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 200° F	Flammable Limits:	Not applicable.
Extinguishing Media:	Carbon Dioxide, 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 > 5% water content.
Hazardous Polymerization:	Will not occur
Incompatibility:	Strong acids, peroxides, and amines. Do not store in direct sunlight.
Hazardous Decomposition Products:	Thermal decomposition can yield CO and CO ₂ .
Conditions to Avoid:	Temperature extremes will shorten product shelf life; i.e. below freezing / above 100° F.

HEALTH HAZARD DATA

Known Hazards:	Can cause irritation. Possible sensitization.
Signs and Symptoms of Exposure:	Eyes: Can cause irritation. Corneal injury is not expected. Skin: Prolonged and repeated contact can cause irritation. An allergic skin reaction (e.g. rash, itching, 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. Considered to have a low acute oral toxicity.

Routes of Exposure:	Dermal.
Carcinogenicity:	No ingredients are classified as a carcinogen by IARC, NTP or OSHA.
Medical Conditions Aggravated by Exposure:	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. Launder contaminated clothing before reuse.
Inhalation:	Move victim to fresh air. Call a physician if symptoms persist.
Ingestion:	Seek medical attention. Do not induce vomiting unless directed by a physician. <u>Never</u> give anything by mouth to an unconscious person.
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. Never enter a confined space without an appropriate air-supplied 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:	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:	Urethane methacrylate resin – USEPA Accession Number 238392. All other chemical components listed on TSCA inventory.
SARA Title III, Section 313:	This product contains 10 - 15% 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.