



MSDS No.: 260
Revision No.: 010
Revision Date: 07/10/08
Page: 1 of 2

MATERIAL SAFETY DATA SHEET

Product name: HVU Adhesive Capsules
Description: 2-part adhesive anchoring system enclosed in a sealed foil pouch / capsule
Supplier: Hilti, Inc., P.O. Box 21148, Tulsa, OK 74121; Ph: 1 800 879 6000
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: (mg/m ³)	PEL: (mg/m ³)	STEL:
Part A:				
Silicon dioxide (quartz sand)	14808-60-7	0.05 (R)	$\frac{10 \text{ mg/mg}^3}{\% \text{SiO}_2 + 2}$ (R)	NE
Urethane methacrylate resin	19136100-5001 (NJ TSRN)	NE	NE	NE
Methacrylate ester	19136100-5005 (NJ TSRN)	NE	NE	NE
Hydroxypropyl methacrylate	27813-02-1	NE	NE	NE
Silica filled polydimethylsiloxane	67762-90-7	2 mg/m ³	NE	NE

Part B:

Dicyclohexyl phthalate	00084-61-7	NE	NE	NE
Dibenzoyl peroxide	00094-36-0	5	5	NE

Abbreviations: NJ TSRN = New Jersey Trade Secret Registry Number. PEL = OSHA Permissible Exposure Limit. TLV = ACGIH Threshold Limit Value. STEL = Short Term Exposure Limit. NE = None Established. NA = Not Applicable. (R) indicates "as respirable fraction". NOTE: Since this product is an encapsulated paste, these exposure limits are for dust are not relevant.

PHYSICAL DATA

Appearance:	Yellowish paste	Odor:	Ester-like odor
Vapor Density: (air = 1)	Not determined	Vapor Pressure:	Not applicable
Boiling Point:	Not determined	VOC Content:	78.5 g/l
Evaporation Rate:	Not determined	Solubility in Water:	Insoluble
Specific Gravity:	1.1 – 1.3	pH:	Not determined

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	> 200° F	Flammable Limits:	Not applicable
Extinguishing Media:	Water fog, CO ₂ , dry chemical, foam		
Special Fire Fighting Procedures:	None known.		
Unusual Fire and Explosion Hazards:	None known.		

REACTIVITY DATA

Stability:	When stored at temperatures greater than 30° C, dibenzoyl peroxide can begin to release carbon dioxide. This will cause the foil pouches to begin to well.
Hazardous Polymerization:	Will not occur. Dibenzoyl peroxide decomposes at temperatures > 50° C.
Incompatibility:	Strong oxidizers, peroxides, acids
Decomposition Products:	When heated to decomposition, can yield CO _x and NO _x .
Conditions to Avoid:	Excessive heat for extended periods of time will shorten product shelf-life.

HEALTH HAZARD DATA

Known Hazards:	No effects expected during normal use. Direct contact with the resin or hardener may cause eye and skin irritation; sensitization is possible.
Signs and Symptoms of Exposure:	Eyes: Can cause temporary discomfort (itching, dryness, redness, etc.). Skin: Can irritate the skin and possibly cause sensitization in susceptible individuals. Inhalation: No effects expected. Ingestion: Not considered a route of exposure.
Routes of Exposure:	Dermal.
Medical Conditions Aggravated by Exposure:	Eye and skin conditions.

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.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush with plenty of water. Contact a physician if symptoms occur.
Skin: Wipe off material and wash with soap and water. Launder contaminated clothing before reuse.
Inhalation: Move victim to fresh air. Call a physician if symptoms persist.
Ingestion: If ingested, call 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 or goggles are 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: Observe good hygiene practices; i.e. do not eat, drink or smoke while using. Wash hands after using and before meals. Store in a dry place between 41 and 77° F. Keep from freezing. For industrial use only. Keep out of reach of children.
Spill Procedures: Wipe up spilled material and place in a closed container for 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 0, Reactivity 1, PPE A
DOT Shipping Name: Not regulated.
IATA / ICAO Shipping Name: Not regulated.
IMDG Shipping Name: Not regulated.
TSCA Inventory Status: Urethane methacrylate resin – USEPA TSCA Accession Number 238392. All other chemical components listed on TSCA inventory.
SARA Title III, Section 313: This product contains 1 - 5% dibenzoyl 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); 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.