

INISUS NO.: Revision No.: **Revision Date:** Page:

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MATERIAL SAFETY DATA SHEET

Product name:

HILTI HFX Adhesive

Description:

Methacrylate resin and hardener. Part A and Part B contained separately in one tube.

Hilti, Inc. P.O. Box 21148, Tulsa, OK 74121

Supplier: Emergency # (Chem-Trec.): 1 800 424 9300 (USA, PR, Virgin Islands, Canada); 001 703 527 3887 (other countries)

AD&W

Hazardous Polymerization:

Decomposition Products:

Incompatibility:

P O Box 910

WESTBROOK, ME 04098

ngredients: Part A: Quartz sand Bonding agent Acrylic acid ester Methacrylate resin Ester of methacrylate acid Butyric acid ester Trimethacrylate Synthetic amorphous silica	CAS Number: 14808-60-7 NJ TSRN: 19136100-5003 NJ TSRN: 19136100-5004 NJ TSRN: 19136100-5020 NJ TSRN: 19136100-5021 NJ TSRN: 19136100-5002 NJ TSRN: 19136100-5002 NJ TSRN: 19136100-5017 67762-90-7	TLV: 0.05 mg/m³ (R) NE	PEL: 0.1 mg/m³ (R) NE NE NE NE NE NE NE NE	STEL: NE
Ethoxylated bismethacrylate Bismethacrylate Part B: Quartz sand Water Dibenzoyl peroxide Dipropylene glycol Amorphous Silica Polyethylene Abbreviations: NJ TSRN indicates New Permissible Exposure Limit. TLV = ACGIH NE = None Established. mppcf = million pa	NJ TSRN: 19136100-5022 NJ TSRN: 19136100-5023 14808-60-7 07732-18-5 00094-36-0 025265-71-8 007631-86-9 009002-88-4 Jersey, Trade Secret Registry N Threshold Limit Value. STEL = S	NE 0.05 mg/m³ (R) NE 5 mg/m³ NE NE NE NE NE Umber. (R) indicates "a	NE 10 mg/mg ³ (R) %SiO₂ + 2 NE 5 mg/m³ NE 20 mppcf NE as respirable dust". mit (15 minute time-w	NE PEL = OSH

Appearance: Vapor Density: (air = 1) Bolling Point: Evaporation Rate: Specific Gravity:	Gray paste Not determined Not determined Not determined 1.7 FIRE AND E	Odor: Vapor Pressure (@68 ° F) VOC Content: Solubility in Water: pH: XPLOSION HAZARD DATA Flammable Limits:	Ester-like odor 0 mm Hg Not determined Insoluble 6
Flash Point: Extinguishing Media; Special Fire Fighting Procedures: Unusual Fire and Explosion Hazards:	Use a self-contained br	m, Water spray eathing apparatus when fighting fires invo decomposition products can be formed.	lving chemicals.
	F	REACTIVITY DATA	
Stability: Hazardous Polymerization:	content (> 5%).	composes (non-violently) at 150° F. Ign	

Strong acids and oxidizing agents. Do not store in direct sunlight.

Conditions to Avoid:

Avoid temperature extremes which could shorten the shelf-life of this product; i.e. below 50° F and above 77° F. (See handling and storage requirements).

Eyes: can cause irritation. Skin: Prolonged and repeated contact can cause irritation. An allergic

skin reaction (sensitization e.g. rash, itching, reddening) can occur with some individuals. Inhalation:

HEALTH HAZARD DATA

Possible irritation. Ingestion: Not a likely route of exposure.

Known Hazards:

Signs and Symptoms of Exposure:

Routes of Exposure:

Carcinogenicity:

Contact. Inhalation.

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

Eye, skin, and respiratory conditions.

Wash with soap and water.

Eye and skin irritation. Possible sensitizer.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Skin:

Flush with plenty of water. Call a physician if symptoms occur.

Inhalation:

Move victim to fresh air. Call a physician if symptoms persist.

Ingestion:

Other:

Seek medical attention. Do not induce vomiting unless directed by a physician. Never give anything by mouth to an unconscious person.

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: Skin Protection:

Safety glasses.

64.4

Respiratory Protection:

Impermeable (nitrile, neoprene or rubber) gloves recommended.

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 50° 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 0, PPEB

DOT Shipping Name:

Not regulated

IATA / ICAO Shipping Name:

Not regulated

TSCA Inventory Status:

Methacrylate resin - PMN has been filed for this material. 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):

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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.