

24-HOUR EMERGENCY PHONE NO; CHEMTREC, 800/424-9300

MATERIAL SAFETY DATA SHEET—Hi-Stik Construction Adhesive 8225

TRADE NAME: Hi-Stik Construction Adhesive 8225 < 5000LBS. Not Hazardous  
CHEMICAL NAME: n/a Mixture  
CHEMICAL FAMILY: Urethane  
FORMULA: Mixture  
HAZARD CLASS: 9  
U.N. NUMBER: UN3082  
PACKING GROUP: III

\*\*\*\*\* HAZARDOUS COMPONENTS\*\*\*\*\*

NAME: Diphenylmethane-Diisocyanate (MDI)  
CAS NUMBER: 101-68-8  
% BY WEIGHT: Less than 30.0%  
ACGIH TLV: .005 PPM  
OSHA PEL: .02 PPM  
OSHA STEL: Not listed

\*\*\*\*\* PHYSICAL PROPERTIES DATA\*\*\*\*\*

BOILING POINT: Decomposes at 646° F  
SPECIFIC GRAVITY: 1.1  
VAPOR PRESSURE (mm HG at 20° C): Below 0.0001  
PERCENT VOLATILE: Negligible  
VAPOR DENSITY: (AIR = 1) 8.6  
EVAPORATION RATE: Nil  
SOLUBILITY IN WATER: Reacts  
pH: Not applicable  
APPEARANCE AND ODOR: Dark brown viscous liquid with slight aromatic odor

\*\*\*\*\* FIRE AND EXPLOSION HAZARD DATA\*\*\*\*\*

FLASH POINT & METHOD: > 200°C METHOD: Cleveland Open Cup  
FLAMMABLE LIMITS: n/a  
LEL%: n/a  
UEL%: n/a  
EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, halon 1211. If water is used, use very large quantities.  
The reaction between water and hot isocyanate may be vigorous.  
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus with full facepiece and protective clothing.  
UNUSUAL FIRE & EXPLOSION HAZARDS: Water contamination will produce carbon dioxide. Do not reseal contaminated container as pressure buildup may rupture them.

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\*\*\*\*\* **HEALTH HAZARD INFORMATION** \*\*\*\*\*

THRESHOLD LIMIT VALUE: .02PPM Ceiling

PRIMARY ROUTES OF EXPOSURE: Skin, nose, mouth, eyes

OTHER EFFECTS OF OVEREXPOSURE: No other adverse clinical effects are known to be associated with exposures to this material.

EYE CONTACT: This material will probably irritate human eyes following contact.

SKIN CONTACT: No irritation is likely to develop following contact with human skin. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact.

INHALATION: Effects occurred when rats were exposed acutely for 6-8 hours to air saturated with vapors of a similar material. However, evidence suggest that MDI can induce asthma-like respiratory sensitization which is similar to TDI sensitization. Vapors and aerosols can irritate eyes, nose and respiratory passages and can result in permanent decreases in lung function.

INGESTION: The acute oral LD50 in rats is probably above 10G/KG. Relative to other materials, a single dose of this product is practically nontoxic by ingestion. Irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion.

CHRONIC EFFECTS OF EXPOSURE: As noted above.

\*\*\*\*\* **FIRST AID** \*\*\*\*\*

EYE FIRST AID: Immediately flush with plenty of water for at least 15 minutes and have eyes examined and treated by medical personnel.

SKIN FIRST AID: Wash material off skin with plenty of soap & water. If redness, itching or burning sensation develops, get medical attention.

INHALATION FIRST AID: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

INGESTION FIRST AID: Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person.)

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\*\*\*\*\*REACTIVITY DATA\*\*\*\*\*

STABLE OR UNSTABLE: Stable

CONDITIONS TO AVOID: Stable under normal conditions.

INCOMPATIBILITY: This product will react with any materials containing active hydrogens such as water, alcohol, ammonia, amines, alkalis and acids. The reaction with water is very slow under 50°C but is accelerated at a higher temperature and in the presence of alkalis, tertiary, amine and metal compounds. Some reactions can be violent.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion products are carbon dioxide, carbon monoxide, nitrogen oxides, traces of hydrogen cyanide.

HAZARDOUS POLYMERIZATION: May occur.

CONDITIONS TO AVOID: High temperatures and the presence of alkalis, tertiary amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

\*\*\*\*\* SPILL AND DISPOSAL PROCEDURES\*\*\*\*\*

SPILL PROCEDURES: Steps to be taken in case material is released or spilled—Wear skin, eye and respiratory protection during clean up. Mix with an absorbent and shovel into waste container. Cover container, but do not seal, and remove it from the work area. Prepare a decontamination solution of 0.2-5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Treat the spill area with this solution. Using about 10 parts solution for each part of spill and allow it to react for 10 minutes. Carbon dioxide will be evolved, leaving insoluble polyureas.

DISPOSAL PROCEDURES: Slowly stir the isocyanate waste into the decontamination solution described above, using 10 parts of the solution for each part of isocyanate. Let stand for 48 hours, allowing the evolved carbon dioxide to vent away. Neutralize the waste. Neither the solid nor the liquid portion is a hazardous waste under RCRA, 40 CFR 261.

\*\*\*\*\*PROTECTIVE EQUIPMENT\*\*\*\*\*

VENTILATION: Use local exhaust to keep exposures to a minimum.

RESPIRATORY PROTECTION: Because of the low vapor pressure, ventilation is usually sufficient to keep vapors below the TLV at room temperatures. Exceptions are when the material is sprayed or heated. If necessary, use a MSHA NIOSH approved positive pressure supplied respirator with a full face piece. Emergencies use positive pressure/self-contained breathing apparatus.

PROTECTIVE CLOTHING: Gloves, apron, arm covers or full body suit.

EYE PROTECTION: Eye wash station in work area. Chemical tight goggles. Full face shield in addition if splashing is possible.

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\*\*\*\*\*SPECIAL PRECAUTIONS\*\*\*\*\*

HANDLING & STORAGE PRECAUTIONS: Prevent skin and eye contact. Observe TLV limitations. Avoid breathing vapors.