

HYLOAD, INC.
MATERIAL SAFETY DATA SHEET

HyBond Plus Adhesive

1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Trade Names:	HyBond Adhesive	Emergency Phone Number:	800-424-9300
Description:	Polymer Adhesive	International Number:	202-483-7616
Company Identification:	Hyload, Inc. 9976 Rittman Rd. Wadsworth, OH 44281	Information Number:	330-334-5022
		Date Prepared:	March 24, 2005

2. COMPOSITION/INFORMATION ON THE HAZARDOUS COMPONENTS

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>Wt. %</u>	<u>ACGIH - TLV</u>	<u>OSHA - PEL</u>	<u>Carcinogenicity</u>		
					<u>NTP</u>	<u>IARC</u>	<u>ACGIH</u>
Methylenebis phenylisocyanate (MDI)	101-68-8	1 - 5	0.005 ppm	0.02 ppm	No	No	No
Methylene Bis (phenylisocyanate) isomers	26447-40-5	<1	0.005 ppm	0.02 ppm	No	No	No

For ingredients above: NIOSH REL: TWA 0.005 ppm, C 0.020 ppm 10-minute, IDLH: 75 mg/m³

NE - Not Established/Known
NA - Not Applicable

TLV - Threshold Limit Value
ND - No Data

PEL - Permissible Exposure Limit

These are raw materials that have been encapsulated in the finished product. The finished product is not listed as a carcinogen by IARC, NTP, ACGIH, or OSHA

3. PHYSICAL AND CHEMICAL PROPERTIES

Appearance.....: Black	Odor.....: ND	Physical State.....: Viscous Liquid
Specific Gravity....: 0.98	Solubility in H ₂ O : N/A	Boiling Point.....: N/A
Vapor Pressure.....: N/A	Vapor Density.....: N/A	
Melting Point.....: N/A	% Volatiles.....: <5%	

Note: The physical data presented above are typical values and not to be construed as a specification

4. FIRE AND EXPLOSION HAZARD

Flash Point: 300F Autoignition.....: NE

EXTINGUISHING MEDIA: Water fog, Regular foam

FIRE FIGHTING PROCEDURES/EQUIPMENT: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known

5. REACTIVITY DATA

CHEMICAL STABILITY: Stable under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Avoid contact with water, acids, bases, alcohols, and metal compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, various hydrocarbons, hydrocyanic acid. Combustion products from polymeric compounds must be considered toxic.

6. HEALTH HAZARDS IDENTIFICATION

HMIS RATINGS

Health - 1

Flammability - 0

Reactivity - 0

Personal Protection - B

PRIMARY ROUTES OF EXPOSURE: Eye, Skin, Inhalation (breathing), Ingestion (swallowing).

EYE CONTACT: Can cause eye irritation evidenced by tearing, stinging, redness and swelling.

SKIN CONTACT: Can cause skin irritation and/or dermatitis.

INHALATION (Breathing): Irritation, coughing, and allergic respiratory sensitization.

INGESTION (Swallowing): Not expected under normal handling.

TARGET ORGANS: Liver, Blood, Reproductive, Lung, Skin, Spleen.

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT: Flush eyes with water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash with soap and warm water. Launder clothing before reuse. If irritation develops, consult a physician.

INHALATION (Breathing): Move individual away from exposure to fresh air. If breathing is difficult, give oxygen. If symptoms develop, seek immediate medical attention.

INGESTION (Swallowing): Do not attempt to give anything by mouth to a drowsy or unconscious person. Place individual on left side with head down. Contact a physician, medical facility, or poison control center for advise about whether to induce vomiting. Get prompt medical attention.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

ACCIDENTAL RELEASE AND/OR SPILL MEASURES: For a small spill, absorb with vermiculite or other absorbant material. For large spill, eliminate all ignition sources. Stop spill at source. Prevent run-off into drains, sewers, streams or other bodies of water. If run-off occurs, notify authorities as required. Pump or vacuum spilled product into clean containers for recovery.

WASTE DISPOSAL METHOD: Dispose of as an industrial waste in accordance with local, state and federal regulations. Dispose of as a hazardous waste in the state of California. In Canada, dispose of the material in accordance with provincial regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Empty containers of this material may still contain residues - all hazard precautions given in this data sheet must be followed. Keep away from excessive heat. Keep container closed when not in use.

OTHER PRECAUTIONS:

ENGINEERING CONTROLS/VENTILATION: If working in a confined area, local exhaust ventilation is recommended when vapors, mists, or dusts can be released.

8. CONTROL MEASURES

RESPIRATORY PROTECTION: If the workplace exposure limits of the product and/or components is exceeded, a NIOSH/MSHA approved air supply respirator is advised. Engineering and administrative controls should be implemented to reduce exposure.

VENTILATION: Product is normally used outside - none required.

PROTECTIVE GLOVES: Wear resistant gloves. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

EYE PROTECTION: Wear goggles or safety glasses.

HYGIENIC PRACTICES: Wash hands with hot or warm water and soap before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored.

9. REGULATORY INFORMATION

FEDERAL: TSCA Status: The intentional ingredients of this product are listed.

SARA Title III - Section 311/312 - Hazard Categories: N - Fire Hazard

N - Sudden Release of Pressure Hazard
N - Reactivity Hazard
Y - Immediate (Acute) Health Hazard
Y - Delayed (Chronic) Health Hazard

SARA Section 302 Extremely Hazardous Materials: None

SARA Section 313 Toxic Chemicals: Diphenylmethane Diisocyanate Isomers, Methylene Bis (phenylisocyanate)

10. OTHER INFORMATION/ADDITIONAL COMMENTS

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein- are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

The ingredients listed Composition/Information on the Components Section are embedded in the product and are provided for information.

Hyload, Inc. provides the information herein compliance with Federal hazard communication standard, 29 CFR 1910.1200, to give warning of actual and assumed hazards, and to inform of generally applicable precautions and control measures which are known to Hyload, Inc.. Hazard information is based on available scientific evidence, but is not always obtained from sources under the direction or control of Hyload, Inc.. Hyload, Inc. makes no warranty or representation that the information is accurate, reliable, complete or representative and Buyer may rely thereon only at Buyer's own risk. Hyload, Inc. warrants only that it has made no effort to censor other than trade secret information or to conceal hazards of its products. The data shown on these pages in no way modifies, amends or enlarges any specification or warranty.