

MATERIAL SAFETY DATA SHEET

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THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

PREPARED: 08/01/90 LAST REVISED: 02/14/94 PRINT DATE: 7/20/2002 FILE NAME: UEH100.MSD

SECTION 1 - PRODUCT IDENTIFICATION

Product Trade Name: MAGNET Urethane Enamel Hardener (4800 Series)
Product Code.....: UEH100
Product Class.....: Paint
Shipping Classification.....: Paint - Combustible Liquid
DOT Hazard Classification.....: Combustible Liquid

HMIS RATINGS: Health - 3 Flammability - 2 Reactivity - 1

SECTION 2 - HAZARDOUS INGREDIENTS

Chemical Name and Synonyms	Cas #	Weight %	Occupational Exposure Limits			Vapor Pressure
			ACGIH TLV		OSHA PEL	
			TWA	STEL		
Aromatic Naphtha	64742-95-6	30 - 50	Not Established			
The manufacturer recommends a maximum acceptable concentration of 50 ppm.						
Homopolymer of IPDI	53880-05-0	50 - 70	Not Established			
Isophorone Diisocyanate IPDI	4098-71-9	*	0.005 ppm	0.02 ppm	N/D	.00003 mm Hg
This product contain less than 0.7% monomeric IPDI based on resin solids.						

SECTION 3 - PHYSICAL DATA

Boiling Point:.....310 - 344°F	Odor:.....Of Solvent
Vapor Density:Heavier than air	Physical State:.....Liquid
Evaporation Rate:.....Slower than N-Butyl Acetate	Solubility in Water:Nil
Specific Gravity:1.02	% Volatile (by Volume):46
Viscosity (KU):55	Weight Per Gallon (Lbs.):8.5
Color:Transparent Clear to Pale Yellow	VOC (GPL):400

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATIONS: DOT - Combustible Liquid
OSHA - Flammable Liquid - Class 2

FLASH POINT: 108 °F LEL: 0.9 UEL: 6.0

EXTINGUISHING MEDIA:

Foam, dry chemical, carbon dioxide or any class B extinguishing agent. Water may be unsuitable as an extinguishing medium, but helpful in keeping adjacent containers cool.

SPECIAL FIRE FIGHTING PROCEDURES:

Fire fighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus.

UNUSUAL FIRE & EXPLOSION HAZARDS:

This material may form toxic isocyanate vapors if heated. Closed containers may rupture when exposed to extreme heat.

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SECTION 5 - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:

The OSHA PEL and ACGIH TLV for isophorone diisocyanate are currently set at 0.005 ppm for an 8-hour TWA. In addition, OSHA has established a 0.02 ppm STEL for isophorone diisocyanate.

There is currently no OSHA PEL or ACGIH TLV for the aromatic 100 in this product.

The OSHA PEL and ACGIH TLV for the homopolymer in this product have not been established.

EFFECTS OF OVEREXPOSURE:

Inhalation: Vapors may cause irritation of the respiratory tract. Vapors emitted from high temperature processes may cause sensitization. Excessive exposure to vapors or spray mists can result in headaches, dizziness, incoordination, nausea and loss of consciousness. Some reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Skin: This material may cause defatting and irritation of the skin. Prolonged or repeated skin contact may cause dermatitis, irritation, reddening, swelling and blistering.

Eyes: Contact with eyes may cause burning and tearing. Overexposure to isophorone diisocyanate (IPDI) can cause asthmatic respiratory reactions. IPDI can also cause lung sensitization. Allergic respiratory reactions may occur in sensitized individuals when exposure to IPDI is below the TLV.

FIRST AID:

Inhalation: Remove victim to fresh air immediately. If difficulty noted in breathing, get medical attention at once. If coughing, difficult breathing or any other respiratory symptoms develop later, seek medical attention at once.

Skin: Wash with soap and water immediately. Remove contaminated clothing immediately from employee and flush affected area with water for at least 15 minutes. Seek medical advice for further assistance and care. If a rash or irritation persists, seek medical advice. Dispose of contaminated clothing or laundry before re-wearing.

NOTE: Disposal of contaminated clothing and wash water must be done in compliance with all applicable state and federal regulations.

Eyes: Flush with large quantities of water for a minimum of 15 minutes and seek medical attention.

Ingestion: If ingested, DO NOT induce vomiting. Keep person warm, quiet and get immediate medical attention or contact your nearest poison control center for assistance. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal.

PRIMARY ROUTE(S) OF ENTRY:

Inhalation, Skin contact

CARCINOGENICITY:

This product does not contain 0.1% or more of any substance which is listed as a carcinogen by IARC, NTP or OSHA.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE AND PHYSICIAN NOTES:

Asthma, Allergies.

SECTION 6 - REACTIVITY DATA

STABILITY: () Unstable (X) Stable

HAZARDOUS POLYMERIZATION: () May occur (X) Will not occur

INCOMPATIBILITY:

Water, amines, strong bases, alcohols.

CONDITIONS TO AVOID:

Warm storage and ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS:

At elevated temperatures, isocyanate vapors may be formed. Under severe thermal degradation, carbon monoxide and low molecular weight organic compounds may be formed.

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SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as saw dust, vermiculite or sand and place material into a closed container. If large spill, dike area to prevent this material from entering water systems or sewers. Wear protective equipment during cleanup.

This material contains the following ingredients which, if spilled or released in quantities equal to or greater than the Reportable Quantity (RQ), are subject to the reporting requirements of CERCLA and/or SARA (40 CFR parts 302 & 305):
Isophorone Diisocyanate RQ Value = 1 lbs.

WASTE DISPOSAL METHOD:

This material has been tested and found to have a flash point below 140 degrees Fahrenheit. If discarded, this material and containers should be treated as hazardous wastes based on the characteristic of ignitability as defined under federal RCRA regulations (40 CFR 261). Disposal of this material or its container requires compliance with applicable labeling, packaging and record keeping standards. Extreme care should be taken to ensure that it is disposed of only in a facility permitted for disposal of hazardous waste.

NOTE: For further information, contact your state or local waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-424-9346 or 202-382-3000).

SECTION 8 - SPECIAL PROTECTION INFORMATION

All equipment should comply with sections 1910.132 -.135 OSHA.

RESPIRATORY PROTECTION:

Respiratory protection is required if material is used in poorly ventilated areas or if material is sprayed or heated. A canister-type respirator must be worn to prevent the inhalation of vapors or spray mists when the TLV or PEL is exceeded. Only NIOSH/MSHA approved equipment should be used.

VENTILATION:

General ventilation is required during normal use. Local ventilation is required if material is sprayed or heated.

PROTECTIVE GLOVES:

Chemical-resistant nitrile, neoprene or rubber gloves required.

EYE PROTECTION:

Chemical resistant goggles or face shields should be worn to prevent eye contact with spills, splashes or vapors.

OTHER PROTECTIVE EQUIPMENT:

Wear protective clothing to prevent skin contact. Eye wash solution should be available.

WORK/HYGIENIC PRACTICES:

Employees should wash their hands and faces before consuming food and medications, smoking or using tobacco products or applying cosmetics. Food, cosmetics, medications and tobacco products should not be kept or stored in the same area where the product is stored or applied.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid inhalation of heated vapors or spray mists. Avoid prolonged or repeated skin contact. Keep away from heat or open flame.

OTHER PRECAUTIONS;

None known.

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SECTION 10 - SUPPLEMENTAL INFORMATION

The following information is provided to assist our customers in complying with their SARA Title III, TSCA, and other regulatory compliance programs.

REGULATORY INFORMATION:

None.

SARA HAZARD CLASSIFICATION:

This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute, chronic, fire.

SARA SECTION 313 LISTED INGREDIENTS:

The following ingredients in this material are subject to the reporting requirements of section 313 of SARA and 40 CFR 372 [see Section 2 for percentage of ingredient(s)]:

Isophorone Diisocyanate (4098-71-9)

DOT PROPER SHIPPING NAME:

Combustible liquid

UN NUMBER:

DOT HAZARD CLASS:

Combustible Liquid

SECTION 11 - DOCUMENTARY INFORMATION

THE DATA IN THIS MSDS HAS BEEN COMPILED FROM PUBLICLY AVAILABLE SOURCES (SOME OF WHICH ARE IDENTIFIED BELOW). THIS DATA RELATES ONLY TO THE DESIGNATED PRODUCT AND NOT TO THE USE OF SAID PRODUCT IN COMBINATION WITH OTHER MATERIALS. BECAUSE CONDITIONS AND CIRCUMSTANCES OF USE OF THE PRODUCT ARE BEYOND OUR CONTROL AND ANY SUMMARY OF DATA SUCH AS IS REPRESENTED BY THIS MSDS IS INHERENTLY INCOMPLETE, MAGNET PAINT/McGREVOR COATINGS MAKES NO WARRANTY ABOUT THE ACCURACY OF THE DATA HEREIN AND ASSUMES NO LIABILITY FOR THE USE OF SUCH DATA. RESPONSIBILITY FOR PROPER PRECAUTIONS AND SAFE USE OF THIS PRODUCT LIES WITH THE USER.

SOURCES

CHEMICAL GUIDE TO THE OSHA HAZARD COMMUNICATION STANDARD, Kenneth B. Clauski, Roytech Publications Inc., 1986
1990 EMERGENCY RESPONSE GUIDEBOOK: U.S. Department of Transportation, DOT P-5800.4, 1987
DOCUMENTATIONS OF THE THRESHOLD LIMIT VALUES and BIOLOGICAL EXPOSURE INDICES, 5th Edition, American Conference of Governmental Industrial Hygienists, 1986
DANGEROUS PROPERTIES of INDUSTRIAL MATERIALS, 6th Edition, N. Irving Sax, Van Nostrand Reinhold Co., 1984
SARA TITLE III - COMMUNITY RIGHT TO KNOW COMPLIANCE GUIDE, Professional Associates in Regulatory Services, 1987
NIOSH POCKET GUIDE TO CHEMICAL HAZARDS, U.S. Department of Health & Human Services DHHS (NIOSH) Publication No. 90-117, June 1990
DANGEROUS GOODS REGULATIONS (IATA Resolution 618, Attachment "A"), International Air Transport Association, 32nd Edition Effective 1/1/91-12/31/91

Abbreviations: N/A = Not Applicable N/D = Not Determined N/R = Not Regulated