
M A T E R I A L S A F E T Y D A T A S H E E T

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME : MEMBRANE 310 COMP. B
IDENTIFICATION NUMBER: MEM310B000B PREPARE / REVISED: 8/5/2013
PRODUCT USE/CLASS : EPOXY HARDENER

SUPPLIER: MANUFACTURER:
Dudick, Inc. Dudick, Inc.
1818 Miller Parkway 1818 Miller Parkway
Streetsboro, Ohio 44241 Streetsboro, Ohio 44241

CHEM-TEL: 800-255-3924 CHEM-TEL: 800-255-3924
24 HOURS A DAY 24 HOURS A DAY

PREPARER: DUDICK, INC., PHONE: 800-322-1970

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	AMINO POLYAMIDE	UNKNOWN	30.0 %
02	BENZYL ALCOHOL	100-51-6	30.0 %
03	ISOPHORONE DIAMINE	2855-13-2	20.0 %
04	XYLENE, MIXED ISOMERS	1330-20-7	15.0 %
05	ETHYLBENZENE	100-41-4	10.0 %
06	2,4,6-TRI (DIMETHYLAMINOMETHYL) PHENOL	90-72-2	5.0 %
07	N-AMINOETHYLPIPERAZINE	140-31-8	5.0 %
08	PARATERTIARYBUTYLPHENOL	98-54-4	5.0 %

ITEM	EXPOSURE LIMITS				COMPANY TLV-TWA	SKIN
	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING		
01	NO INFO	NO INFO	NO INFO	NO INFO	NE	YES
02	NO INFO	NO INFO	NO INFO	NO INFO	NE	NO
03	NE	NE	NE	NE	NE	YES
04	100PPM	150PPM	100PPM	NO INFO	NE	NO
05	100PPM	125PPM	100PPM	125PPM STEL	NE	YES
06	NE	NE	NE	NE	NE	YES
07	NE	NE	NE	NE	NE	YES
08	NO INFO	NO INFO	NO INFO	NO INFO	NO INFO	YES

(See Section 16 for abbreviation legend)

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SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: DANGER!---CAUSES BURNS. WARNING!...FLAMMABLE. HARMFUL IF SWALLOWED. DO NOT GET IN EYES, ON SKIN, OR CLOTHING. DO NOT BREATH VAPORS OR MISTS.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: EYE CONTACT MAY CAUSE SEVERE IRRITATION WITH CORNEAL INJURY. MAY CAUSE BLINDNESS.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: SEVERE SKIN IRRITANT.

EFFECTS OF OVEREXPOSURE - INHALATION: MAY CAUSE IRRITATION OF THE NOSE, THROAT, AND LUNGS. THIS PRODUCT CONTAINS XYLENE WHICH AT HIGH VAPOR CONCENTRATIONS MAY CAUSE HEADACHE, DIZZINESS, ANESTHETIC EFFECTS AND MAY HAVE CENTRAL NERVOUS SYSTEM EFFECTS. CONCENTRATIONS OF 10,000 PPM OF XYLENE CAN BE IMMEDIATELY DANGEROUS TO LIFE AND HEALTH. VAPORS AND MISTS MAY BE CORROSIVE TO THE RESPIRATORY TRACT.

EFFECTS OF OVEREXPOSURE - INGESTION: INGESTION MAY CAUSE BURNS TO THE MOUTH, THROAT, AND ESOPHAGUS. INGESTION MAY CAUSE NAUSEA, CRAMPS, VOMITING, AND DIARRHEA.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: ALLERGIC REACTIONS MAY OCCUR IN SOME INDIVIDUALS. PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY THIS PRODUCT. MAY CAUSE SKIN SENSITIZATION.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION INGESTION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: HOLD OPEN EYE LIDS AND FLUSH WITH COPIOUS AMOUNTS OF FLOWING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.

FIRST AID - INHALATION: REMOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SUPPLEMENTAL OXYGEN MAY BE INDICATED. CALL A PHYSICIAN.

FIRST AID - INGESTION: IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GIVE VICTIM PLENTY OF WATER TO DRINK IF CONSCIOUS.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 106 F LOWER EXPLOSIVE LIMIT: 1.0 % (SETAFLASH CLOSED CUP) UPPER EXPLOSIVE LIMIT: 7.0 %

AUTOIGNITION TEMPERATURE: NE

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|          SECTION 5 - FIRE FIGHTING MEASURES          |
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EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: MAY PRODUCE TOXIC CARBON MONOXIDE AND NITROGEN OXIDES UPON COMBUSTION.

SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA. WATER MAY BE INEFFECTIVE BUT MAY BE USED TO COOL FIRE EXPOSED CONTAINERS. FIGHT FIRE FROM A SAFE DISTANCE. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

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|          SECTION 6 - ACCIDENTAL RELEASE MEASURES          |
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA TO CONTAIN SPILLAGE. ABSORB EXCESS WITH SAND, EARTH, OR VERMICULITE. SCRAPE UP AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. WEAR ALL APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING SPILLS.

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|          SECTION 7 - HANDLING AND STORAGE          |
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HANDLING: IF BODILY CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING AT ONCE. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING VAPORS. FOR INDUSTRIAL USE ONLY. WEAR APPROPRIATE SAFETY EQUIPMENT WHEN HANDLING.

STORAGE: DO NOT STORE NEAR INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

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|          SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION          |
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ENGINEERING CONTROLS: GENERAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO MINIMIZE VAPOR CONCENTRATIONS. LOCAL EXHAUST MAY BE REQUIRED.

RESPIRATORY PROTECTION: WEAR A PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR WHEN EXPOSURE TO MISTS OR VAPORS IS LIKELY.

SKIN PROTECTION: IMPERVIOUS RUBBER OR NEOPRENE TYPE. CONSULT GLOVE MANUFACTURER FOR RECOMMENDATIONS.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED AS MINIMUM PROTECTION. GOGGLES RECOMMENDED FOR INDIVIDUALS MIXING THE RESIN AND CATALYST.

OTHER PROTECTIVE EQUIPMENT: CLEAN, FULL BODY COVERING TO MINIMIZE SKIN CONTACT WITH MATERIAL. AN EYEWASH STATION AND SAFETY SHOWER IS RECOMMENDED NEAR WORK AREA.

HYGIENIC PRACTICES: SMOKING OR EATING IN THE WORK AREA SHOULD NOT BE PERMITTED. WASH THOROUGHLY AFTER HANDLING MATERIAL.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 275 - 477 F VAPOR DENSITY : Is heavier than air
ODOR : AMINE AND SOLVENTODOR THRESHOLD : NE
APPEARANCE : VISCOUS LIQUID EVAPORATION RATE: Is slower than Ether
SOLUBILITY IN H2O : NEGLIGIBLE
FREEZE POINT : NE SPECIFIC GRAVITY: 1.07
VAPOR PRESSURE : NE pH @ 0.0 % : NE
PHYSICAL STATE : LIQUID VISCOSITY : 330-430cps
COEFFICIENT OF WATER/OIL DISTRIBUTION: NE

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: HEAT, FLAME, CONTAMINANTS.

INCOMPATIBILITY: STRONG OXIDANTS. STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN. OXIDES OF CARBON.
OTHER TOXIC ORGANIC SUBSTANCES MAY BE FORMED. AMMONIA WHEN HEATED.
COMBUSTION PRODUCTS MAY INCLUDE NITRILES AND AMIDES.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: DO NOT CONTAMINATE PONDS, STREAMS, OR UNDERGROUND
WATER SUPPLY. ISOPHORONEDIAMINE IS BIODEGRADABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: FOLLOW ALL RELEVANT LOCAL, STATE, AND FEDERAL
REGULATIONS. EMPTY DRUMS MAY CONTAIN RESIDUE OR FUMES WHICH ARE HARMFUL.
THIS PRODUCT EXHIBITS THE CHARACTERISTIC OF IGNITABILITY IF IT BECOMES A
HAZARDOUS WASTE, D001.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: FLAMMABLE LIQUIDS, CORROSIVE N.O.S.

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| SECTION 14 - TRANSPORTATION INFORMATION |
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DOT TECHNICAL NAME: XYLENE, ISOPHORONEDIAMINE

DOT HAZARD CLASS: 3

HAZARD SUBCLASS: 8

DOT UN/NA NUMBER: UN 2924

PACKING GROUP: III

RESP. GUIDE PAGE: 132

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| SECTION 15 - REGULATORY INFORMATION |
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THE FOLLOWING COMPONENTS ARE SUBJECT TO REPORTING IN SECTION 2:

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----- CHEMICAL NAME ----- CAS NUMBER   WT/WT % IS LESS THAN
No non-hazardous components exist

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U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

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----- CHEMICAL NAME ----- CAS NUMBER   WT/WT % IS LESS THAN
XYLENE, MIXED ISOMERS           1330-20-7           15.0 %
ETHYLBENZENE                     100-41-4            10.0 %

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TOXIC SUBSTANCES CONTROL ACT:

The chemical substances in this product are not on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

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----- CHEMICAL NAME ----- CAS NUMBER
No information is available.

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U.S. STATE REGULATIONS: AS FOLLOWS -

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SECTION 15 - REGULATORY INFORMATION
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NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME ----- CAS NUMBER
No non-hazardous materials are among the top five ingredients.

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME ----- CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME ----- CAS NUMBER
ETHYLBENZENE 100-41-4

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: B, E

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SECTION 16 - OTHER INFORMATION
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HMIS RATINGS - HEALTH: 3* FLAMMABILITY: 2 REACTIVITY: 0

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

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The information contained on this MSDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to comply with all Federal, State and Local Regulations.
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<END OF MSDS>