

SECTION 1. PRODUCT AND COMPANY INFORMATION

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TRADE NAME: QUICKMOUNT 2 EPOXY HARDENER

CHEMICAL FAMILY: Diethylenetriamine: CAS Number – 111-40-0

HMIS RATING: HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0

HAZARD RATING:

LEAST: 0 SLIGHT: 1 MODERATE: 2 HIGH: 3 EXTREME: 4

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview.**

HUMAN HEALTH HAZARDS: Corrosive to the eyes. Corrosive to the skin. Vapors/mists may be corrosive to upper respiratory tract. Material may be corrosive to the mouth, throat, and stomach; and may cause permanent damage. May be moderately toxic if swallowed. May be toxic if absorbed through skin. May cause skin sensitization.

SAFETY HAZARDS: Material will not burn unless preheated.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>%</u>
DIETHYLENETRIAMINE	111-40-0	100%

SECTION 4. FIRST AID MEASURES

- INHALATION:** Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
- SKIN CONTACT:** Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15-minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention.
- EYE CONTACT:** Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Rinse continuously with water while on way to get medical attention.
- INGESTION:** Do not induce vomiting. Give one glass of water unless victim is drowsy, convulsing, or unconscious. Seek medical attention immediately.

NOTES TO PHYSICIAN

- SYMPTOMS:** Irritation as noted above. Lung damage (scarring, bronchitis, emphysema) may be evidenced by shortness of breath, especially on exertion, and may be accompanied by chronic cough. Skin sensitization (allergy) may be evidenced by rashes, especially hives.

SECTION 5. FIRE-FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA:** Use water fog, "alcohol foam", dry chemical or carbon dioxide.
Water or fog may cause frothing which can be violent, especially if sprayed into containers of hot or burning liquid.
- SPECIFIC HAZARDS DURING FIRE FIGHTING:** Material will not burn unless preheated. Delayed lung damage (pulmonary edema) can be experienced after exposure to combustion products, sometimes hours after the exposure. Nitrogen oxides and other potentially hazardous nitrogen-containing compounds may be released upon combustion.
Cool fire exposed containers with water.
- SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:** Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES**PERSONNEL PRECAUTIONS:** Corrosive.

Prevent all bodily contact with spilled material.
Shut off leaks, if possible without personal risk.
Remove ignition sources.

**ENVIRONMENTAL
PRECAUTIONS:**

Dike and contain.
Contain run-off and dispose of properly.
Prevent from entering into drains, ditches or rivers.

**CLEAN-UP METHODS –
SMALL SPILLAGE:**

Take up with an absorbent material and place in non-leaking
containers.
Seal tightly for proper disposal.

**CLEAN-UP METHODS –
LARGE SPILLAGE:**

Remove with vacuum trucks or pump to storage/salvage vessels.
Soak up residue with an absorbent such as clay, sand or other
suitable material; place in non-leaking containers for proper disposal.
Flush area with water to remove trace residue.

ADDITIONAL ADVICE:

Notify authorities if any exposures to the general public or
environment occurs or is likely to occur.
See Section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE**ADIVCE ON SAFE
HANDLING:**

Do not pressurize drum containers to empty them. Heating this
curing agent above 300 Deg. F in the presence of air may cause slow
oxidative decomposition; above 500 Deg. F, polymerization may
occur. Some epoxy resins can produce exothermic reactions which in
large masses can cause runaway polymerization and charring of the
reactants. Fumes and vapors from these thermal and chemical
decompositions vary widely in composition and toxicity. Do not
breathe fumes. Use a NIOSH-approved respirator as required to
prevent overexposure. In accord with 29 CFR.1910.134, use either an
atmosphere-supplying respirator or an air-purifying respirator for
organic vapors.

STORAGE:**REQUIREMENTS FOR
STORAGE AREAS AND
CONTAINERS:**

Store in a cool, dry place with adequate ventilation. Keep away from
open flames and high temperatures.

SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

PROTECTIVE MEASURES: Wear appropriate respirator and full-body protective clothing.

ENGINEERING MEASURES: Use ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for emergency use.

EYE PROTECTION: Do not get in eyes.
Wear chemical goggles if there is potential contact with eyes.

SKIN AND BODY PROTECTION: Do not get on skin, on clothing.
Wear chemical-resistant protective clothing such as gloves, outer clothing or apron, overshoes and a face-shield suitable to potential exposure.

RESPIRATORY PROTECTION: Do not breathe vapors or mists.
Use a NIOSH-approved respirator as required to prevent overexposure.
In accord with 29 CFR 1910.134
Use either a full-face, atmosphere-supplying respirator or air-purifying respirator for organic vapors.
Avoid breathing vapors which may be produced under some conditions such as heating or applications of uncured material in large surface areas (e.g., flooring and painting).
Avoid breathing aerosols and mists which may be formed by various methods of application.

EXPOSURE GUIDELINES:

Components with workplace control parameters	Regulation	Exposure time	Value	Remarks
DIETHYLENTRIAMINE	ACGIH	Time Weighted Average (TWA):	1 ppm	
	ACGIH	Skin designation:		Can be absorbed through the skin.
	OSHA Z1A	Time Weighted Average (TWA):	1 ppm 4 mg/m3	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
COLORS:	Colorless
BOILING POINT:	199 deg. C (390 deg F) at 760 mm/Hg
VAPOR PRESSURE:	<1.33 mbar at 20 deg. C (68 deg F)
RELATIVE VAPOR DENSITY:	>1
SOLUBILITY IN WATER:	Completely miscible.
ODOR:	Amine
RELATIVE DENSITY:	0.95
FLASH POINT:	101.67 deg C (215.01 deg F) (Pensky-Martens)
LOWER EXPLOSION LIMIT:	1.9 % (V)
UPPER EXPLOSION LIMIT:	11.9 % (V)
OTHER PHYSICO-CHEMICAL PROPERTIES:	The above properties are typical values only and do not constitute a specification.

SECTION 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID:	Heat, flames and sparks.
MATERIALS TO AVOID:	Can react vigorously with strong oxidizing agents, strong Lewis or mineral acid, and strong mineral and organic bases, especially primary and secondary aliphatic amines. Reacts with considerable heat release with some curing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Nitrogen oxides, carbon monoxide and unidentified organic compounds may be formed during combustion.
HAZARDOUS REACTIONS:	Stable under normal use conditions. Hazardous polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION**CHRONIC HEALTH HAZARD:**

Components	Concentration	Regulation	Value	Remarks
DIETHYLENETRIAMINE	100%	US IARC Monographs on Occupational Exposures to Chemical Agents.		This component has not been classified by the International Agency for Research on Cancer (IARC).

POTENTIAL HEALTH HAZARD:**INHALATION:**

Vapor/mists may be corrosive to upper respiratory tract.
Repeated or prolonged exposure can result in lung damage.

SKIN:

Corrosive to the skin.
May be toxic if absorbed through skin.
May cause skin sensitization.

EYES:

Corrosive to the eyes and may cause severe damage including blindness.
Vapors may be irritating.

INGESTION:

Not likely to be a relevant route of exposure.
Corrosive and may cause severe and permanent damage to mouth, throat and stomach.
May be moderately toxic if swallowed.

**AGGRAVATED MEDICAL
CONDITONS:**

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product.

SECTION 12. ECOLOGICAL INFORMATION**ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)****BIODEGRADABILITY:**

No data available

ECOTOXICITY EFFECTS**TOXICITY TO FISH:**

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local and federal regulations.

SECTION 14. TRANSPORTATION INFORMATION

DOT	UN/NA-No. Class Packing Group ERG No. Proper shipping name	2079 8 II 154 DIETHYLENETRIAMINE
IMDG	UN/NA-No. Class Packing Group EmS Proper shipping name	2079 8 II F-A S-B DIETHYLENETRIAMINE
IATA Cargo	UN/NA-No. Class Packing Group ERG No. Proper shipping name	2079 8 II 154 DIETHYLENETRIAMINE

SECTION 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

NOTIFICATION STATUS

AICS: Listed

DSL: Listed

INV (CN): Listed

DCS (JP): Listed

TSCA: Listed

EINECS: Listed

KECI (KR): Listed

PICCS (PH): Listed

**NOTIFICATION STATUS
LEGEND**

y=Yes (Listed); AICS = Australian Inventory of Chemical Substances;
DSL = Canadian Domestic Substances List; INV (CN) = Inventory of
Existing Chemicals Substances in China; ENCS (JP) = Japanese
Existing and New Chemical Substances; TSCA = Toxic Substances
Control Act; EINECS = European Inventory of New and Existing
Chemicals; KECI (KR) = Korean Existing Chemicals Inventory;
PICCS (PH) = Philippine Inventory of Chemicals and Chemical
Substances

U.S. EPS CERCLA HAZARDOUS SUBSTANCES (40 CFR 302)

DIETHYLENETRIAMINE No RQ

SARA 311/312 HAZARDS

Acute Health Hazard

**U.S. EPA EMERGENCY PLANNING AND COMMUNIT RIGHT-TO-KNOW ACT (EPCRA) SARA
TITLE III SECTION 313 TOXIC CHEMICALS (40 CFR 372.65) – SUPPLIER NOTIFICATION
REQUIRED**

DIETHYLENETRIAMINE No Ed minimis Concentration

**U.S. EPA EMERGENCY PLANNING AND COMMUNIT RIGHT-TO-KNOW ACT (EPCRA) SARA
TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A)**

DIETHYLENETRIAMINE Threshold Planning Quantity: No TPQ

DIETHYLENETRIAMINE Reportable quantity: No RQ

NEW JERSEY RIGHT-TO-KNOW CHEMICAL LIST

DIETHYLENETRIAMINE Not listed

PENNSYLVANIA RIGHT-TO-KNOW CHEMICAL LIST

DIETHYLENETRIAMINE Not listed

MASSACHUSETTS RIGHT-TO-KNOW CHEMICAL LIST

DIETHYLENETRIAMINE Not listed

HMIS RATINGHealth: 3
Fire: 1
Reactivity: 0

SECTION 16. OTHER INFORMATION

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