

# SAFETY DATA SHEET

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** DIETHYLENETRIAMINE  
**Control Number:** 00062  
**Product Description:** Complex Amine

### COMPANY IDENTIFICATION

**Supplier:** Chemical Distribution Solutions  
1125 Oak St. Ste. 303  
Conway, AR 72032

**24 Hour Emergency Telephone:** (800)-424-9300 CHEMTREC  
**General Information:** (501) 978-1111

## SECTION 2- HAZARDS IDENTIFICATION

### GHS Classification:

#### [ Health ]

Skin corrosion Category 1B  
Serious eye damage Category 1

#### [ Environmental ]

Acute Aquatic Toxicity Category 2

#### [ Physical ]

Acute toxicity, Oral Category 4  
Acute toxicity, Inhalation Category 1  
Acute toxicity, Dermal Category 4

### GHS Label elements, including precautionary statements

### Pictograms



**Signal Word:** Danger

### Hazard statement(s)

H302 + H312 Harmful if swallowed or in contact with skin  
H314 Causes severe skin burns and eye damage.  
H330 Fatal if inhaled.  
H335 May cause respiratory irritation.

### Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 Wear respiratory protection.  
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Diethylenetriamine	111-40-0	90-100

## SECTION 4 - FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eye Contact:** Flush eyes water for at least 15 minutes. Continue flushing until medical personnel arrive.

**Skin Contact:** Remove contaminated clothing. Wash with soap and water. Seek immediate medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if symptoms appear.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if symptoms appear.

## SECTION 5 - FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Hazardous combustion products:** Oxides of carbon and nitrogen.

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** Containers can build up pressure if exposed to heat and/or fire. Use water spray to keep fire-exposed containers cool. Containers may rupture in the heat of a fire.

## SECTION 6 - ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Spills:** Provide adequate ventilation. Evacuate all non-essential personnel from the spill area. Suitable protective clothing should be worn. Shut off or plug source of spill.

**Small spills:** absorb on inert media and collect into suitable container.

**Large Spills:** Dike spill area to contain liquid. Salvage as much re-useable liquid as possible into a suitable container. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations

## SECTION 7 - STORAGE AND HANDLING

**Handling:** Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Keep container closed and tightly sealed when not in use. Avoid contact with skin and eyes.

**Storage:** Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers.

## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Use explosion-proof ventilation equipment. Provide ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below. The level of protection and types of controls will vary depending upon potential exposure conditions.

**Exposure Limits:**     DETA                             1 ppm ACGIH     1 ppm OSHA

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

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## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

<p><b>Flash Point:</b> 216 °F  <b>Autoignition Temperature:</b> no data available  <b>Boiling Point:</b> 390 °F  <b>Melting Point/Freezing Point:</b> -31 °F  <b>Vapor Pressure:</b> no data available  <b>Vapor Density (Air-1):</b> 3.6  <b>Odor/Appearance:</b> Clear colorless liquid with ammonia like odor.</p>	<p><b>Flammability Limits:</b> Lower: 2 Upper: 7  <b>Specific Gravity:</b> 0.955  <b>Volatile %:</b> no data available  <b>Evaporation Rate (Water=1):</b> no data available  <b>pH:</b> Not Applicable  <b>Solubility in Water:</b> no data available</p>
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## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.  
**Conditions to Avoid:** Keep away from heat, flame and other potential ignition sources.  
**Incompatible Materials:** Strong oxidizing agents, Strong acids, Copper.  
**Hazardous Polymerization:** Will not occur.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Signs and Symptoms of Overexposure:**  
**Skin:** Contact can cause redness and irritation. Severity depends on the amount and duration of exposure.  
**Eyes:** Liquid contact will cause stinging and tearing.  
**Inhalation:** Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs. Breathing this material may cause central nervous system depression.  
**Ingestion:** If swallowed this material may irritate the mucous membranes of the mouth throat and esophagus. Aspiration of this material into the lungs may result in damage or death.

**Acute oral toxicity:**  
 LD50 rat: 1,080 mg/kg  
**Acute inhalation toxicity:**  
 LC50 rat: 0.3 mg/l 4h  
**Acute dermal toxicity:**  
 LD50 rabbit: 1,090 mg/kg

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** Toxicity to fish LC50 - Poecilia reticulata (guppy) - 1,014 mg/l - 96 h  
**Bio-accumulative potential:** No available published data.  
**Mobility:** No available published data

## SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14 - TRANSPORTATION

### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Diethylenetriamine  
**Hazard Class:** 8  
**UN Number:** 2079  
**Packaging Group:** 2

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## SECTION 15 - REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Comprehensive Environmental Response and Liability Act (CERCLA)

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material has not been established.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard, Chronic Health Hazard

#### SARA Section 313 (40 CFR 372) Hazard Categories:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The following components are subject to reporting levels established by SARA Title III, Section 313:

**Clean Water Act:** This product contains Diethylenetriamine a chemical listed under the CWA.

**Clean Air Act:** This product contains Diethylenetriamine a chemicals listed under the CAA.

**California Prop 65:** This product contains no chemicals known by the State of California to cause cancer, birth defects or other reproductive harm.

## SECTION 16 - OTHER INFORMATION

**MSDS Revision Date:** September 2014

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 3

**Flammability:** 1

**Reactivity:** 0

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which Chemical Distribution Solutions assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.