

# MATERIAL SAFETY DATA SHEET

Diethanolamine

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Diethanolamine  
Product Code: D4500  
Material Uses:  
Manufacturer: Science Stuff  
1104 Newport Ave  
Austin, TX 78753  
(512) 837-6020  
Entry Date : 6/3/2013  
Print Date: 6/3/2013  
24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	1
Reactivity:	0

Hazard Rating:  
Least Slight Moderate High Extreme  
0 1 2 3 4  
NA=Not Applicable NE=Not Established

## SECTION 2 HAZARD IDENTIFICATION

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Diethanolamine	CAS# 111-42-2	100%	W/W	OSHA TWA 3 ppm (15 mg/mf)

## SECTION 4 FIRST AID MEASURES

May cause irritation and burns. May be harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or appropriate foam.  
Fire / Explosion Hazards: Emits toxic fumes under fire conditions  
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Diethanolamine

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Shut off all sources of ignition. Absorb on sand or vermiculite and place in closed containers for proper disposal. Ventilate area and wash spill site after material pickup is complete.

**SECTION 7 HANDLING AND STORAGE**

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: No special protection required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Goggles and Face Shield

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

TWA: 0.46 (ppm) from ACGIH (TLV) [1995] TWA: 2 (mg/m3) from ACGIH [1995] Consult local authorities for acceptable exposure limits.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	27 to 31°C	Percent Volatile by Volume:	Information not available
Boiling Point:	268°C	Evaporation Rate	Information not available
Vapor Pressure:	5mm Hg @ 138°C	Evaporation Standard	
Vapor Density:	3.6	Auto Ignition Temp	365° C (689° F)
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	1.6%
Appearance /Odors:	White solid or colorless liquid	Upper Flamm. Limit in Air	10.6%
Flash Point:	138° C (280°F )		
Specific Gravity:	1.097		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable

Conditions to Avoid: None known

Materials to Avoid: Oxidizing agents, copper alloys, zinc, Avoid contact with acids

Hazardous Decomposition Products: Oxides of carbon and nitrogen

Hazardous polymerization: Will Not Occur

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Conditions to Avoid: None known

**SECTION 11 Toxicological Information**

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.  
Toxicity to Animals:  
Acute oral toxicity (LD50): 710 mg/kg [Rat]. Acute dermal toxicity (LD50): 12200 mg/kg [Rabbit].  
Chronic Effects on Humans: Not available.  
Other Toxic Effects on Humans:  
Extremely hazardous in case of skin contact (irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (permeator).  
Special Remarks on Toxicity to Animals: Not available.  
Special Remarks on Chronic Effects on Humans: Not available.  
Special Remarks on other Toxic Effects on Humans: Not available.

**SECTION 12 Ecological Information**

Ecotoxicity: Not available.  
BOD5 and COD: Not available.  
Products of Biodegradation:  
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.  
Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.  
Special Remarks on the Products of Biodegradation: Not available.

**SECTION 13 Disposal Considerations**

**SECTION 14 Transport Information**

DOT Classification: Environmentally hazardous substances,  
liquid, n.o.s. (Diethanolamine), 9, UN3082,  
PG III

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

Federal and State Regulations:  
Pennsylvania RTK: Diethanolamine Massachusetts RTK: Diethanolamine TSCA 8(b) inventory: Diethanolamine SARA 313  
toxic chemical notification and release reporting: Diethanolamine CERCLA: Hazardous substances.: Diethanolamine  
Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).  
Other Classifications:  
WHMIS (Canada): CLASS D-2B: Material causing other toxic effects (TOXIC).  
DSCL (EEC):  
R22- Harmful if swallowed. R38- Irritating to skin. R41- Risk of serious damage to eyes.

**SECTION 16 Additional Information**

Diethanolamine
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Flammability

Health

Reactivity

**Revisions**

**NFPA**

	0.3	Revised to 16 sec LS
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