

# Safety & Health Quick List

Chemical/Product Name:	Diethylenetriamine
Synonym:	DETA

CAS No: 111-40-0

**Hazard Statements:**  
 Harmful if swallowed or in contact with skin.  
 Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 Fatal if inhaled.  
 May cause respiratory irritation.  
 Suspected of damaging fertility or the unborn child.  
 Causes damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

NFPA Ratings:	4-Dangerous	3-Severe	2-Moderate	1-Slightly Hazardous
GHS Ratings:	1-Dangerous	2-Severe	3-Moderate	4-Slightly Hazardous

**Physical Properties**

NFPA Rating: Health	3
NFPA Rating: Flammability	1
NFPA Rating: Reactivity	0
GHS Classification:Corrosive	1B
GHS Classification:Health Hazard	1
Freeze Point	-38 F
LEL %	1.90%
UEL %	11.60%
Appearance	colorless liquid
Odor	Ammoniacal

Auto Ignition Temperature	676 F
Solubility in Water	completely soluble
Specific Gravity	0.959
Flash Point	207 F (Closed Cup) 225 F (Open Cup)
Vapor Pressure	0.003psi
Vapor Density	3.6 (heavier than air)
Max Concentration	100%
Boiling Point	405 F
RQ	N/A

**Exposure Guidelines**

PEL/TLV	1 ppm (TWA)
STEL	N/A
Ceiling	N/A
Skin Notation (S)	1B
Carcinogen(A1-A4)	N/A

Corrosive	1B
Irritant	N/A
IDLH	No data
Odor Threshold	No data
Sensitizer	1B

**Other Hazards:**

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**Emergency Response**

Fire Extinguisher	Water fog or fine spray, dry chemical or CO2 fire extinguishers, ATC foam preferred, AFFF may work, not as effective
spill or leak	Isolate for at least 50 meters (150 feet) in all directions
Fire	Isolate for 800 meters (1/2 mile) in all directions
Monitoring Method	N/A

**Normal Tasks**

Sampling  
 Drum/Tote Filling  
 Strapping Tank/Truck  
 Hose Disconnect Unclear (Camlock Fitting)  
 Hose Disaconnect Unclear (Dry Disconnect)  
 Line/Equipment Opening Unclear  
 Line/Equipment Opening Clear  
 Contaminated Equipment in Maintenance Shop  
 which can't be cleaned  
 Tank Cleaning (No Chemicals Present)  
 Tank Cleaning (Chemicals Present)

**PPE Group**

Group 7
Group 7
Group 7
Group 7
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Group 7
Group 7
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**Emergency Response Tasks**

Small Spill  
 Medium Spill  
 Large Spill  
 Downwind Monitoring (Vapor Only)  
 Liquid Contact (HAZMAT)

**PPE Group**

Group 7
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**Lab Handling**

Inside Hood  
 Outside Hood

**PPE Group**

Group 13
Group 13

NUMBER	KEY CODE	DESCRIPTION
<b>Group 2</b>	GENERAL PROCESS AREA	Standard PPE - Hard Hat, Nomex Coveralls, Safety Side-Shield Glasses, Work Gloves (Leather)
<b>GROUP 7</b>	SLICKER SUIT	Standard PPE (Group 2) with Chemical Gloves, Boots, Slicker Suit and the Required Respirator
<b>Group 11</b>	STANDARD LAB -L	Nomex Lab Coat, Safety Side-Shield Glasses, Latex Gloves
<b>Group 12</b>	STANDARD LAB -N	Nomex Lab Coat, Safety Side-Shield Glasses, Nitrile Gloves
<b>Group 13</b>	LAB & RESPIRATOR	Group 11 or 12 along with a Cartridge Respirator
<b>Respirator Type</b>		Air Purifying or supplied air
<b>Chemical Glove Type</b>		Polyethylene or Butyl

**PPE Example**

