



## Section 1 - Identification

**Product Name:** CPL 2860C  
**Alternate Name:** Neutralizing Amine Morpholine/Cyclohexamine and DEAE 40%  
**Recommended Use:** Boiler water treatment  
**Manufacturer:** Chem Pro Laboratory, Inc., 941 W 190th St, Gardena CA 90248, 310-532-8611  
**ChemTrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 - Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

### DANGER



**Harmful if swallowed**  
**Toxic in contact with skin**  
**Suspected of damaging fertility or the unborn child**  
**Flammable liquid and vapor**  
**Causes severe skin burns and serious eye damage**

Do not breathe dusts or mists.

Do not eat, drink or smoke when using this product.

Keep away from sparks and open flames. No smoking. Ground container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wash contacted areas thoroughly after handling.

Wear eye and face protection, protective gloves and clothing, and protective gloves.

IF EXPOSED OR CONCERNED: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing. Wash skin with plenty of water. Wash contaminated clothing before reuse.

IF SWALLOWED: Immediately call a poison center or doctor. Rinse mouth. Do NOT induce vomiting.

IN CASE OF FIRE: Use carbon dioxide, dry chemical, or appropriate foam to extinguish.

Store locked up, in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with federal, state, and local regulations.

## Section 3 - Composition/information on ingredients

Chemical Name	CAS Number	Percent
2-diethylaminoethanol (DEAE)	100-37-8	10-20%
cyclohexylamine	108-91-8	10-20%
morpholine	110-91-8	10-20%



#### Section 4 - First-aid measures

##### Emergency and First Aid Procedures:

<b>Inhalation</b>	Remove to fresh air. Obtain medical assistance immediately.
<b>Eye Contact</b>	Flush eyes with water for 15 minutes. Get immediate medical attention.
<b>Skin Contact</b>	Wash contaminated areas of body with soap and water while removing contaminated clothing. Launder contaminated clothing before reuse. Get immediate medical attention.
<b>Ingestion</b>	Do not induce vomiting. Dilute with water or milk and get medical assistance immediately.
<b>Symptoms of Overexposure:</b>	
<b>Inhalation</b>	Inhalation of high concentrations of vapor may produce irritation of respiratory tract and lungs.
<b>Contact with Skin or Eyes</b>	Skin contact, with the liquid or vapors/mists may result in dermatitis and deep burns. Eye contact may result in burns and permanent injury.
<b>Absorption Through Skin</b>	Can be absorbed in toxic amounts.
<b>Ingestion</b>	Very toxic by ingestion.

#### Section 5 - Fire-fighting measures

<b>Extinguishing Media</b>	carbon dioxide, dry chemical, or appropriate foam
<b>Fire Fighting Procedure</b>	Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Water may be ineffective on flames but should be used to cool fire-exposed containers.
<b>Unusual Fire/Explosion Hazard</b>	Dangerous when exposed to heat or flames. Can react with oxidizing materials. Emits toxic gases when heated to decomposition.
<b>Hazardous Combustion Products</b>	Oxides of nitrogen (NOx), oxides of carbon

#### Section 6 - Accidental release measures

<b>Spill Response Procedure</b>	Confine spilled material to prevent contamination in suitable containers for disposal in RCRA licensed facility. This material is RCRA hazardous due to its properties.
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#### Section 7 - Handling and storage

<b>Handling Precautions</b>	No special handling procedures are required.
<b>Storage Conditions</b>	Store in a cool dry place. Keep container tightly sealed in a dry and ventilated area. Do not store unopened containers in direct sunlight for extended periods.

#### Section 8 - Exposure controls/personal protection

<b>Chemical Name</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>
2-diethylaminoethanol (DEAE)	10 ppm TWA	2 ppm TWA
cyclohexylamine	not listed	10 ppm TWA
morpholine	20 ppm TWA	20 ppm TWA

<b>Ventilation</b>	Local and mechanical (general) exhaust required.
<b>Respiratory Protection</b>	If vapors or mists are generated, wear NIOSH/OSHA approved organic vapor/mist respirator.
<b>Protective Gloves</b>	Clean neoprene rubber gloves.
<b>Eye Protection</b>	Face shield or chemical splash goggles.
<b>Other Protective Equipment</b>	Impervious clothing to protect exposed body areas.



**Work / Hygenic Practices** Safety showers and eyewash facilities required. Explosion proof transfer pumps.

**Section 9 - Physical and chemical properties**

<b>Appearance</b>	Colorless liquid.	<b>Vapor Pressure @20°C</b>	7 mm Hg @ 68 deg F
<b>Odor</b>	Characteristic amine odor	<b>Vapor Density</b>	3
<b>Odor Threshold</b>	Not Determined	<b>Specific Gravity</b>	1.00
<b>pH</b>	10-11	<b>Solubility in Water</b>	>10%
<b>Melting Point, °F</b>	23 deg F	<b>Partition Coefficient</b>	Not Determined
<b>Boiling Point, °F</b>	263 deg F	<b>Auto Ignition Temp, °F</b>	590 deg F
<b>Flash Point, °F</b>	95 deg F	<b>Decomposition Temp, °F</b>	Not Determined
<b>Evaporation Rate</b>	Not Determined	<b>Viscosity</b>	Not Determined
<b>Flammability Limits</b>	1.8-10.8%	<b>Percent Volatile</b>	100%

**Section 10 - Stability and reactivity**

<b>Reactivity</b>	in water: None.
<b>Stability</b>	stable under normal conditions
<b>Conditions to Avoid</b>	Avoid contact with mineral acids, copper, brass, open flames and oxidizing materials. Do not add or mix with nitrites.
<b>Incompatible Materials</b>	Strong oxidizing agents. Strong acids.
<b>Hazardous Decomposition Products</b>	Oxides of carbon and nitrogen may form in burning. Ammonia and hydrogen on reaction. Irritating aldehydes and ketones may be formed.
<b>Hazardous Polymerization</b>	Hazardous polymerization will not occur.

**Section 11 - Toxicological information**

<b>Routes of Entry</b>	inhalation, skin or eye contact, ingestion
<b>Acute Exposure Symptoms</b>	This material is corrosive to body tissues.
<b>Chronic Exposure Effects</b>	Possible damage to liver, lungs, kidneys, blood and blood forming organs.
<b>Medical Conditions Aggravated By Exposure</b>	No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

**Acute Toxicity:**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
2-diethylaminoethanol (DEAE)	100-37-8	1320 mg/kg	1113 mg/kg	5 mg/L
cyclohexylamine	108-91-8	303 mg/kg	631-1000 mg/kg	>39.2 mg/L
morpholine	110-91-8	1919 mg/kg	500 mg/kg	8 mg/L

**Carcinogenicity:**

Ingredients are on the following lists of suspected or known carcinogens:

<b>Chemical Name</b>	<b>CAS Number:</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
2-diethylaminoethanol (DEAE)	100-37-8	No	No	No
cyclohexylamine	108-91-8	No	No	No
morpholine	110-91-8	No	No	No



### Section 12 - Ecological information

Overview: No data

### Section 13 - Disposal considerations

**Preparing Waste For Disposal** Incinerate or bury in RCRA licensed facility. Method must be approved by local, state and/or federal agency.

### Section 14 - Transport information

DOT Shipping UN1760, CORROSIVE LIQUID, N.O.S., 8, PG III, (MORPHOLINE)

### Section 15 - Regulatory information

**California Proposition 65** This product does not contain chemicals listed by California proposition 65.

**HMIS Ratings** Health: 3, Flammability: 1, Reactivity: 0

### Section 16 - Other information

**Date Prepared** 5/21/2015

**Preparer** Michael Bortnik, Keith Johnson

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