



Section 1 - Identification

Product Name: CPL 2860
Alternate Name: Neutralizing Amine Morpholine/Cyclohexamine DEAE 20%
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



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.

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 skin with plenty of water. Wash contaminated clothing before reuse.

IF SWALLOWED: 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	5-10%
cyclohexylamine	108-91-8	5-10%
morpholine	110-91-8	5-10%

Section 4 - First-aid measures

Emergency and First Aid Procedures:



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

Section 5 - Fire-fighting measures

Extinguishing Media	carbon dioxide, dry chemical, or appropriate foam
Fire Fighting Procedure	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.
Unusual Fire/Explosion Hazard	Dangerous when exposed to heat or flames. Can react with oxidizing materials. Emits toxic gases when heated to decomposition.
Hazardous Combustion Products	Oxides of nitrogen (NOx), oxides of carbon

Section 6 - Accidental release measures

Spill Response Procedure	Confine spilled material to prevent contamination in suitable containers for disposal in RCRA licensed facility. This material is RCRA hazardous due to it's properties.
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Section 7 - Handling and storage

Handling Precautions	No special handling procedures are required.
Storage Conditions	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

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

Ventilation	Local and mechanical (general) exhaust required.
Respiratory Protection	If vapors or mists are generated, wear NIOSH/OSHA approved organic vapor/mist respirator.
Protective Gloves	Clean neoprene rubber gloves.
Eye Protection	Face shield or chemical splash goggles.
Other Protective Equipment	Impervious clothing to protect exposed body areas.
Work / Hygienic Practices	Safety showers and eyewash facilities required. Explosion proof transfer pumps.



Section 9 - Physical and chemical properties

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

Section 10 - Stability and reactivity

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

Section 11 - Toxicological information

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

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
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:

Chemical Name	CAS Number:	IARC	NTP	OSHA
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

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Preparer Michael Bortnik, Keith Johnson

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