

MATERIAL SAFETY DATA SHEET

PAGE #: 1 OF 4

PRODUCT NAME: BT-408

MSDS NUMBER: 32002BT408

PRODUCT CODE: CONDENSATE TREATMENT

MSDS DATE: 3/20/02

KEY NUMBER: BT-408

EMERGENCY PHONE #'s: 800-255-3924 (CHEMTEL)



Advanced Chemical Technology, Inc.

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Ph: 1-800-527-9607 / Fax: 1-909-980-9366

Web: <http://www.actglobal.net> Email: act@actglobal.net

HEALTH	2	Hazardous
FIRE	0	Will not burn
REACTIVITY	0	Stable
SPECIFIC	Corrosive - COR	

1. IDENTIFICATION

See Addendum: Ref. PAGE:

Chemical Name: BT-408

Chemical Family: MIXTURE

CAS #: MIXTURE

Chemical Formula: MIXTURE

CAS Name: MIXTURE

Molecular Weight: MIXTURE

Synonyms / Common Name: CONDENSATE TREATMENT

DOT Information: CORROSIVE

2. PHYSICAL DATA

See Addendum: Ref. PAGE:

Appearance: Clear Liquid

Color: Colorless to light yellow

State: Liquid

Odor Characteristics: Ammoniacal Odor

pH: >12.2

Viscosity: NE

Specific Gravity (Water = 1): 0.9616

Vapor Density (Air = 1): 4.04

Vapor Pressure: 1mmHg @ 20C

Melting Point: NA

Boiling Point: >210 F

Flash Point: 130F TCC

Freezing Point: ND

Percent Volatility: ND

Evaporation Rate (BAc = 1): <1

Solubility in Water: Miscible

Solubility in Oil: ND

Solubility in Acetone: ND

3. INGREDIENTS - HAZARDOUS

See Addendum: Ref. PAGE:

Material / Components	CAS #:	CAS Name	TLV Units	Approx. %
Diethylaminoethanol	100-37-8	Diethylaminoethanol	10 ppm	20
Cyclohexylamine	108-91-8	Cyclohexylamine	10 ppm	10
Morpholine	110-91-8	Morpholine	50 ppm	10

4. FIRE AND EXPLOSION HAZARD DATA

See Addendum: Ref. PAGE:

Flash Point: 130F TCC

Flammable Limits in Air % by volume: Lower 3.5
Upper 29.3

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical for fires in storage areas.

Special Fire Fighting Procedures: Keep container cool with water spray. Fire Fighters should wear self-contained breathing apparatus and full protective clothing.

Unusual Fire & Explosion Hazards: Irritating vapors may be emitted during a fire.

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5. HEALTH HAZARD DATA See Addendum:

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Threshold Limit Value: 10 ppm for Diethylaminoethanol, 10 ppm for Cyclohexylamine, and 50 ppm for Morpholine.**Effects of Overexposure:****Inhalation:** Vapor and mists are corrosive to the nose, throat, and mucous membranes..**Skin Contact:** Causes severe skin irritation. May cause a more serious response if confined to the skin or if the skin is abraded. A single prolonged exposure is not likely to result in harmful quantities being absorbed.**Eye Contact:** Vapors will irritate the eyes. Liquids and mists can severely irritate or damage the eyes and cause corneal burns..**Ingestion:** This material is corrosive to the mouth and throat.**Delayed Effects:** Primary irritant dermatitis. Prolonged contact may result in destruction of tissue.**Medical Conditions Aggravated by Exposure** Persons with pre-existing skin disorders, eye problems, or impaired respiratory functions may be more susceptible to the effects of this substance.**6. FIRST AID MEASURES** See Addendum:

PAGE #:

Inhalation: If breathing stops, give artificial respiration. Call a physician immediately.**Skin Contact:** Immediately remove clothing under a safety shower. Flush all affected areas with large amounts of water for at least 15 minutes.**Eye Contact:** Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Obtain medical attention immediately.**Ingestion:** Do not induce vomiting. If conscious, immediately give large quantities of water to dilute. Call a physician or the nearest Poison Control Center immediately.**NOTES TO PHYSICIAN:** None.**7. REACTIVITY DATA** See Addendum:

PAGE #:

Stability: Stable**Incompatibility: (materials to avoid)** Strong oxidizing agents, halogen compounds, acids, copper, aluminum and galvanized metals.**Hazardous Combustion or Decomposition Products** Carbon monoxide, carbon dioxide, ammonia, and oxides of nitrogen.**Hazardous Polymerization:** Will not occur.**Conditions to Avoid:** Do not mix with other industrial chemicals.**8. SPILL OR LEAK PROCEDURES** See Addendum:

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Actions to take for Leaks & Spills Ventilate enclosed areas. For spills wipe up with absorbent and place into chemical waste container. Contain by diking with soil or other absorbent material. Keep out of sewers, drains, surface waters, and soil.**Waste Disposal Method:** Flush area with detergent and water to remove final traces after using absorbent. Use D.O.T. approved containers for waste disposal. Dispose of all waste according to Federal, State, and Local regulations.



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9. SPECIAL PROTECTION INFORMATION

See Addendum:

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Respiratory Protection: NIOSH approved respirator in the absence of adequate environmental controls at the point of use.

Eye Protection: Chemical goggles and face shield.

Skin Protection: Rubber gloves.

Other Clothing: Rubber apron and protective clothes.

Other Equipment: Eye wash station

Engineering Controls: Normal

10. HANDLING AND STORAGE

See Addendum:

Ref. PAGE:

Special Precautions: Do not get in eyes, on skin, or on clothing. Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the PEL.

Other Precautions: A safety shower should be nearby and ready for use. Avoid storing in areas of high heat. Keep from freezing.

11. REGULATORY INFORMATION

See Addendum:

Ref. PAGE: 4

Workplace Classification: ND

12. TOXICOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Acute Data: ND

**Reproductive /
Teratology Data** NE

13. ECOLOGICAL INFORMATION

See Addendum:

Ref. PAGE:

Fate in the Environment: NE

14. DISPOSAL CONDITIONS

See Addendum:

Ref. PAGE:

Procedures: Dispose of all waste according to Federal, State, and Local regulations.

15. TRANSPORTATION INFORMATION

See Addendum:

Ref. PAGE:

DOT Classification: Corrosive, NOS,8, UN 1760, PG III
(Contains Diethylaminoethanol, Cyclohexylamine, Morpholine, Aqueous Solution)

Warning Labels: CORROSIVE



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ADDENDUM for Section - 11. REGULATORY INFORMATION - Ref. Pg. 3

RCRA Status: D001

CERCLA Status: Reportable Quantity for Cyclohexylamine is one pound.

SARA/Title III- Section 304 Emergency notification reporting. This product contains a Section 304 listed hazardous substance for emergency release notification.

Section 302 -Threshold Planning Qty. for Cyclohexylamine is 10000 lbs.

Section 304-Release notification for Cyclohexylamine is one pound.

SARA/Title III- Section 313 Toxic chemical release reporting. This product does not contain a Section 313 listed toxic chemical subject to release reporting requirements.

TSCA Inventory Status- All chemical components are listed on TSCA Inventory.

California Proposition 65 Status- This product does not contain chemicals currently on the California list of known carcinogens and/or reproductive toxins.

ADDENDUM for Section - Other Information

NA = Not Applicable

ND = Not Determined

NE = Not Established

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ADDENDUM for Section -