

HMIS RATINGS:  
 Health : 3  
 Flammability : 1  
 Reactivity : 1  
 Personal Protection: G

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Branson EC	Emergency Telephone Number: (800)535-5053
Chemical Family : Monoethanolamine Solution	Date Prepared April 2007
Company Identification: Branson Ultrasonics Corp.	MSDS Number: 3819
41 eagle Rd.	MFGD. BY: ABC Compounding Co., Inc.
Danbury, CT 06813	6970 Jonesboro Rd.
	Morrow, Ga. 30260

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	% BY WGHT.	OSHA PEL/ACGIH TLV	SARA 302/304(1)*	SARA 313 (2)*	STATE INFO(3)(4)
110-91-8	Morpholine	< 8.0	20 ppm / 20 ppm	NO	NO	NO
141-43-5	Monoethanolamine	< 73.0	3 ppm / 3 ppm	NO	NO	NO

\* See Section 15 for more information n/e = none established - n/a = not applicable

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER. Corrosive. Harmful if inhaled or absorbed through skin. Causes eye and skin burns. Harmful and corrosive if swallowed.

Primary Route of Entry: Eye contact, skin contact/absorption, inhalation  
 Acute/Potential Health Effects

EYES: Causes severe irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva.

SKIN: Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation with pain, local redness and swelling and possible tissue destruction.

INHALATION: High concentrations of vapor or mists may cause irritation of the respiratory tract. Prolonged exposure may cause injury to the respiratory tract.

INGESTION: Harmful if swallowed. Causes severe irritation or chemical burns of the mouth, throat, esophagus and stomach.

---

**Section 3: HAZARDS IDENTIFICATION - continued:**

Chronic / Long Term Effects: Repeated overexposure may cause damage to kidneys and liver.

**Signs and Symptoms of Overexposure:**

Dermal exposure may cause local redness and swelling, pain and discomfort.  
Prolonged skin contact may result in absorption of harmful amounts.  
Inhalation may aggravate asthma and inflammatory or fibrotic pulmonary disease.

**Target Organ Effects:**

Liver, kidney

**Reproductive/Developmental Information:**

No data.

**Carcinogenic Information:**

This material is not listed as a carcinogen by IARC, NTP or OSHA.

---

**Section 4: FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**SKIN:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**INGESTION:** Seek medical attention immediately. Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Never give anything by mouth to an unconscious person. Do not induce vomiting.

---

**Section 5: FIRE FIGHTING MEASURES**

Flash Point: 205 degrees F (TCC Method)

Extinguishing Media: Dry chemical, CO<sub>2</sub>, foam or water spray is recommended.

Special Fire Fighting Instructions: Wear a self contained breathing apparatus with a full face piece operated in the positive pressure demand mode. Chemical resistant PPE is recommended.

---

**Section 6: ACCIDENTAL RELEASE MEASURES**

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth). Prevent runoff from entering drain, sewers, streams or other bodies of water. Absorb unrecoverable product. Transfer contaminated absorbant, soil and other materials to containers for disposal.

---

**Section 7: HANDLING AND STORAGE**

Follow all MSDS/label precautions even after container is emptied because they may contain product residues. Use with adequate ventilation. Do not get in eyes, on skin or clothing. Store in a cool, dry place. Keep container closed when not in use. Keep out of reach of children.

---

**Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION**

Eye Protection: Wear safety glasses or goggles.

MSDS Number : 3819

Skin Protection: Wear impervious gloves (made from rubber, nitrile or neoprene), clothing and boots.

Respiratory Protection: When respiratory protection is required, use an organic vapor cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements must be followed.

Engineering Controls: Good general ventilation required.

---

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor :Clear, colorless to light amber liquid with slight ammonia odor

pH Concentrate :> 12

Solubility in Water : Complete

Vapor Pressure [mmHg] :n/e

Evaporation Rate (Butyl Acetate=1) :n/e

Vapor Density [Air=1] :n/e

Specific Gravity [H2O=1] :1.026

Boiling Point :> 212 F

---

Section 10: REACTIVITY

Stability Stable

Hazardous Polymerization :Will not occur

Conditions to avoid :High temperature

Hazardous Decomposition Products: None

Incompatibility :Strong acids, alkalies, oxidizing agents

---

Section 11: TOXICOLOGICAL INFORMATION

No data

---

Section 12: ECOLOGICAL INFORMATION

Toxic to aquatic organisms.

---

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Wastes must be disposed of in accordance with federal, state and local environmental control regulations.

---

Section 14: TRANSPORTATION INFORMATION

D.O.T. Shipping Name / Class:

Corrosive Liquid, Basic, Organic, N.O.S., 8

UN3267, II (Contains Ethanolamine)

---

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA (Toxic Substances Control Act):The intentional ingredients of product are listed.

Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

