

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

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: BRANSON EC 4-1 GAL CASE STK
 Chemical Family: Alkali Cleaner
 Company Identification: BRANSON ULTRASONICS CORP.
 41 EAGLE RD
 P.O. BOX 1961
 DANBURY, CT 06813-1961

Emergency Phone: 800-535-5053
 Date Prepared: 04/30/10
 MSDS Number: 6034

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, 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.

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.

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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, CO2 or foam is recommended. Dilution with water may release heat.

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 drains, sewers or other bodies of water. Absorb unrecoverable product. Transfer contaminated absorbent, 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 and face shield. Remove contact lenses.

Skin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, vinyl or neoprene), clothing and boots.

Respiratory Protection: When respiratory protection is required, use an organic vapor & particulate cartridge. All respiratory programs must meet OSHA's 29 CFR 1910.34 &

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ANSI Z88.2 requirements.

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: > 12.0

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:

Waste 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:

ACUTE (X) Chronic (X) Fire () Pressure () Reactive (X) Not Applicable ()

(1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355 Appendix A

(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s)

D002

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.

(3) California proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986)

(4) Massachusetts (Hazardous Substance Disclosure by Employers)

Section 16: OTHER INFORMATION

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.
