Safety Data Sheet

Branson EC

Section 1 Identification

Trade Name: Branson EC
Product Identification: 6034
Synonyms: Water-based alkali detergent
Product Use Description: Cleaner/ Degreaser

General Info Phone: (203) 796-0400
Emergency Phone: (800) 535-5053
Supplier: BRANSON ULTRASONICS CORP.

Section 2 Hazards Identification

Classifications
Skin corrosion - Category 1
Eye Damage - Category 1
Acute Toxicity - Oral - Category 4
Acute Toxicity - Inhalation - Category 4
Specific Target Organ Toxicity (Single exposure) - Category 3

Signal Word: Danger

Hazard Statements
Keep out of reach of children.
Read label and SDS before use.
Causes severe skin burns and eye damage
May cause respiratory irritation.
Harmful if swallowed or inhaled.

Precautionary Statements
Prevention
Avoid breathing fumes/vapours.
Wash hands thoroughly after handling.
Wear protective gloves and clothing.
Wear eye and face protection.
Use only in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Keep container tightly closed.
Keep cool.

Response
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water/shower.
Wash contaminated clothing before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Safety Data Sheet

Branson EC

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

Storage
Store locked up in a well-ventilated place.

Disposal
Dispose of contents and container in accordance with all local, regional, and national regulations.

Hazards Not Otherwise Specified
Not applicable

Section 3 Composition

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>Concentration % by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monoethanolamine</td>
<td>141-43-5</td>
<td>&gt;=70 &lt;= 80</td>
</tr>
<tr>
<td>Morpholine</td>
<td>110-91-8</td>
<td>&gt;=5 &lt;= 10</td>
</tr>
</tbody>
</table>

Section 4 First Aid

EMERGENCY OVERVIEW
DANGER. Harmful if swallowed or inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation.

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 a physician.

SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water/shower. If skin irritation persists get medical attention.

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

INGESTION: Rinse mouth. Do not induce vomiting. Seek medical attention immediately.

Section 5 Fire Fighting Measures
Safety Data Sheet

Branson EC

Suitable fire extinguishing media:
Use water spray, fog or foam.

Specific hazards arising from the chemical:
Containers may build pressure and rupture.

Hazardous thermal decomposition products:
Carbon Dioxide, Carbon Monoxide

Specific fire-fighting methods:
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire fighters:
Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode.

Section 6 Accidental Release Measures

Personal precautions:
Put on appropriate personal protective equipment (see section 8)

Environmental precautions and clean-up methods:
Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Disperse vapors with water spray. Prevent runoff from entering drains, sewers, streams or other bodies of water. Absorb spill with inert material. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Section 7 Handling and Storage

Do not use or store near heat, sparks or open flame. Store in a cool, dry place. Do not get in eyes, on skin or on clothing. Avoid breathing fumes. Keep out of reach of children.

Section 8 Exposure Controls/Personal Protection

Monoethanolamine
ACGIH TLV 3 ppm
OSHA PEL 3 ppm

Morpholine
OSHA PEL 20 ppm

Eye Protection: Wear safety glasses or goggles.
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 & particulate cartridge. All respiratory programs must meet OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements.
Engineering Controls: Good general ventilation required.
Section 9 Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>CLEAR LIQUID</td>
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<tr>
<td>Boiling Point</td>
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</tr>
<tr>
<td>Decomposition Temperature</td>
<td>NOT AVAILABLE</td>
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<tr>
<td>Explosive Limit Ranges</td>
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<tr>
<td>Flash Point</td>
<td>205 F</td>
</tr>
<tr>
<td>Odor</td>
<td>SLIGHT AMMONIA</td>
</tr>
<tr>
<td>Other Information</td>
<td>VOC content (wt. %): 81</td>
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<tr>
<td>Partition Coeff</td>
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<tr>
<td>Relative Density</td>
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<tr>
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<tr>
<td>Explosive Properties</td>
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<tr>
<td>Melting/Freezing Point</td>
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<tr>
<td>Odor Threshold</td>
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<td>Physical State</td>
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<td>Solubility (Water)</td>
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<tr>
<td>pH</td>
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Section 10 Stability and Reactivity

Reactivity: Under normal conditions of storage and use, hazardous reactions will not occur.

Chemical Stability: Stable under normal conditions.

Incompatible Materials: Acids and strong oxidizers

Conditions to Avoid: High temperatures

Decomposition Products: CO, CO2, AMMONIA

Section 11 Toxicological Information

Primary Route of Entry: Skin contact, eye 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 vapor concentrations may be irritating to respiratory tract.

INGESTION: Harmful or fatal if swallowed. Corrosive. Can cause severe burns and complete tissue perforation of mucous membranes, mouth, throat and stomach.

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

Target Organ Effects: Liver, kidney, lungs and upper respiratory tract, gastrointestinal tract, eyes, skin.

Reproductive/Developmental Information: No data.

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

Acute Toxicity Values:

Monoethanolamine: Oral - LD50, rat 1720 mg/Kg; Dermal - LD50, rabbit 1025 mg/Kg
Section 12 Ecological Information

Monoethanolamine: Fish LC50, Pimephales promelas (fathead minnow), 227 mg/l, 96 hr.

Section 13 Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations. See label for further instructions.

Section 14 Transport Information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

UN number 3267
Proper shipping name Corrosive Liquid, Basic, Organic, n.o.s. (contains Ethanolamine)
Class 8
Packing group II

Section 15 Regulatory Information

If identified components of this product are CERCLA hazardous substances and/or listed under Sections 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 (also known as EPCRA, the Emergency Planning and Community Right-To-Know Act), or under California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act), they are listed above in Section 15 of this SDS.

If identified components of this product are listed under Section 313, this product contains toxic chemicals subject to the reporting requirements of Section 313. This information must be included in all SDS that are copied and distributed for this material.

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

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

T.S.C.A. Status: All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

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 hazardous waste it would be assigned RCRA Code(s)

D002

Section 16 Other Information

<table>
<thead>
<tr>
<th>Trade Name:</th>
<th>Branson EC</th>
<th>SDS #:</th>
<th>6034</th>
<th>Page 5 of 6</th>
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<tbody>
<tr>
<td>SDS ID:</td>
<td>SDS01435</td>
<td>Revision #:</td>
<td>1</td>
<td>Revision Date 05/29/2015</td>
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Safety Data Sheet

Branson EC

HMIS Ratings:

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
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<tbody>
<tr>
<td>HEALTH</td>
<td>3</td>
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<tr>
<td>FLAMMABILITY</td>
<td>1</td>
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<tr>
<td>REACTIVITY</td>
<td>1</td>
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<tr>
<td>PERSONAL PROTECTION</td>
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Disclaimer: This Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the 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.

Preparation/Revision Date: 5/29/15