SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier
Product name: Econo-DF1
Synonyms: Defoamer

Intended Use Of The Product
Use of the substance/mixture: Breaker. For professional use only.

Name, Address, And Telephone Of The Responsible Party
Economy® Polymers & Chemicals
435 E. Anderson Road
77047 Houston, TX
T 713-723-8416; 1-800-231-2066
www.economypolymers.com

Emergency Telephone Number
Emergency number: CHEMTREC 1-800-424-9300 (US); 703-527-3887 (International, collect calls are accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification Of The Substance Or Mixture
GHS-US classification
Not classified

Label Elements
GHS-US labeling: No labeling applicable
Other Hazards: Not available
Unknown acute toxicity (GHS US): Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

There are no hazardous ingredients as defined in the United States 29 CFR 1910.1200 (OSHA), Canada Controlled Products Regulations (WHMIS), and Mexico Normas Oficiales Mexicanas 0030SSA1-2006 (SSA).

SECTION 4: FIRST AID MEASURES

Description Of First Aid Measures
General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
Inhalation: When symptoms occur: go into open air and ventilate suspected area.
Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion: Rinse mouth. Do NOT induce vomiting.

Most Important Symptoms And Effects Both Acute and Delayed
General: None expected under normal conditions of use.
Inhalation: Inhalation of vapor and/or mist may cause respiratory irritation and sensitization.
Skin Contact: Contact during a long period may cause light irritation
Eye Contact: May cause minor eye irritation
Ingestion: Gastrointestinal irritation. Ingestion may cause nausea, vomiting and diarrhea.
Chronic symptoms: Not available

Indication Of Any Immediate Medical Attention And Special Treatment Needed
If you feel unwell, seek medical advice (show the label where possible).
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SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media
Suitable extinguishing media: Not flammable. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media: None known.

Special Hazards Arising From The Substance Or Mixture
Fire hazard: Not considered flammable but will burn at high temperatures.
Explosion hazard: Product is not explosive
Reactivity: Hazardous reactions will not occur under normal conditions.

Advice For Firefighters
Precautionary measures fire: Exercise caution when fighting any chemical fire.
Firefighting instructions: Use water spray or fog for cooling exposed containers.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous Combustion Products: Carbon oxides (CO, CO₂)

Reference To Other Sections
Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures
General measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist).
For Non-Emergency Personnel
Protective equipment: Use appropriate personal protection equipment (PPE).
Emergency procedures: Evacuate unnecessary personnel.
For Emergency Personnel
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

Environmental Precautions
Prevent entry to sewers and public waters.

Methods And Material For Containment And Cleaning Up
Methods for cleaning up: Clear up spills immediately and dispose of waste safely.

Reference To Other Sections
See heading 8, exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

Precautions For Safe Handling
Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.
Conditions For Safe Storage, Including Any Incompatibilities
Storage conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.
Specific End Use(s) For professional use only.

SECTION 8: EXPOSURE CONTROLS-PERSONAL PROTECTION

Control Parameters
No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls
Appropriate engineering controls: Not generally required. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Personal protective equipment: Not generally required. Personal protective equipment may be necessary as conditions warrant.
Hand protection: Wear chemically resistant protective gloves.
Eye protection: Chemical goggles or safety glasses.
Respiratory protection: Wear approved mask.
Other information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
Information On Basic Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear to hazy or milky white</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH (1% in 50/50 IPA/H2O)</td>
<td>4 - 7</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;100°C (&gt;212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C (&gt;212°F)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower flammable limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper flammable limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific gravity density</td>
<td>0.99-1.02 (water = 1)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>Not available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion data - sensitivity to mechanical impact</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion data - sensitivity to static discharge</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity  Hazardous reactions will not occur under normal conditions.
Chemical Stability  Stable at standard temperature and pressure.
Possibility Of Hazardous Reactions  Hazardous polymerization will not occur.
Conditions To Avoid  Direct sunlight. Extremely high or low temperatures.
Incompatible Materials  Strong acids. Strong bases. Alkalis (organic)
Hazardous Decomposition Products  Carbon oxides (CO, CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION
Information On Toxicological Effects - Product

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>LD50 and LC50 Data</td>
<td>Not available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>Not available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
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Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Aspiration hazard: Not classified
Symptoms/injuries after inhalation: Inhalation of vapor and/or mist may cause respiratory irritation and sensitization.
Symptoms/injuries after skin contact: Contact during a long period may cause light irritation.
Symptoms/injuries after eye contact: May cause minor eye irritation.
Symptoms/injuries after ingestion: Gastrointestinal irritation. Ingestion may cause nausea, vomiting and diarrhea.

**Information On Toxicological Effects - Ingredient(s)**
LD50 and LC50 Data: Not Available

**SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity** Not available

**Persistence And Degradability**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Persistence and degradability</th>
<th>Bioaccumulative Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econo-DF1</td>
<td>Not established.</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

**Mobility In Soil** Not available

**Other Adverse Effects**
Other information: Avoid release to the environment.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste disposal recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

**SECTION 14: TRANSPORT INFORMATION**

In accordance with ICAO/IATA/DOT/TDG
UN Number Not regulated for transport
UN Proper Shipping Name Not regulated for transport
Overland transport Not regulated for transport
Transport by sea Not regulated for transport
Air transport Not regulated for transport

**SECTION 15: REGULATORY INFORMATION**

**US Federal regulations**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Listed on the United States TSCA (Toxic Substances Control Act) inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econo-DF1</td>
<td></td>
</tr>
</tbody>
</table>

**US State regulations**
Neither this product nor its chemical components appear on any US state lists.

**Canadian regulations**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Listed on Non-Domestic Substances List (DSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Econo-DF1</td>
<td></td>
</tr>
</tbody>
</table>

Econo Buffer-104

<table>
<thead>
<tr>
<th>WHMIS Classification</th>
<th>Uncontrolled product according to WHMIS classification criteria</th>
</tr>
</thead>
</table>

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

**SECTION 16: OTHER INFORMATION**

Indication of changes: 02/28/2014
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Other information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible For The Preparation Of This Document:
Economy Polymers & Chemicals
435 E. Anderson Road Houston, TX 77047
T 1-800-231-2066

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS