MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ECONO-A104
REVISION DATE: APRIL 25, 2010

For Chemical Emergency (Spill Leak Fire Exposure or Accident)
CALL CHEMTREC Day or Night 800-424-9300
For International, Call 703-527-3887 (Collect Calls Accepted)

** FOR INDUSTRIAL USE ONLY **

Chemical Description: Acid Gellant
Formula: Mixture
DOT: UN1993, Flammable Liquid, N.O.S. (contains Methanol), 3, III

Section II – Composition, Information on Ingredients

<table>
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<tr>
<th>Material</th>
<th>Cas #</th>
<th>Percent</th>
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<tr>
<td>1) Methanol</td>
<td>67-56-1</td>
<td>Confidential</td>
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Section III – Hazards Identification

Hazard Overview: DANGER! Flammable Liquid. Contains methanol. May cause blindness if swallowed. May be harmful if inhaled. Do not use, store, spill or pour near heat, sparks or open flame. Keep container closed when not in use. Use with adequate ventilation. Do not take internally. Avoid prolonged or repeated breathing of vapor. Avoid contact with skin, eyes or clothing. Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

Section IV – First Aid Measures

Eyes: Remove victim from exposure and into fresh air. Flush thoroughly with running water at least 15 minutes while holding eyelids open. Call a physician at once.
Skin: Remove contaminated clothing and wash contact area with soap and water for 15 minutes. For a large splash flood body under a shower. Call a physician at once. Launder clothes before reuse.
Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. Treat symptoms. Keep victim warm and quiet. Seek immediate medical attention.
Ingestion: If victim is conscious and alert, induce vomiting by giving syrup of ipecac or by gently stimulating victim’s uvula. Give water. Call a physician at once. If victim is
drowsy or unconscious, do not induce vomiting or give anything by mouth; place victim on the left side with head down. If possible, do not leave victim unattended.  

Caution: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.  

Note to physicians: This product contains methanol. Ethanol decreases the metabolism of methanol. Ethanol should be administered as soon as possible in cases of severe poisoning. If ethanol therapy is indicated, administer a loaded dose of 7.6 to 10 mL of 10% ETOH in D5W over 30-60 minutes. Maintenance dose of 1.4 mL/Kg/Hr of 10% ETOH, to achieve a 100 to 130 mg/dL blood ETOH level during ethanol therapy. (If charcoal is administered, ethanol should be administered intravenously and not orally.)

Section V - Fire & Explosion Hazard Data

Flash Point: 54°F
Lower Explosive Limit: 2.0%
Upper Explosive Limit: 36.0%
Extinguishing Media: Water spray, Foam, CO₂, Dry Chemical or other agent suitable for Class B fires

Fire & Explosion Hazards: Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. Cool drums exposed to flames with a water spray. May evolve CO, CO₂ and/or NOₓ under fire conditions

*Additional information will be provided in a medical emergency to qualified medical personnel.

Section VI – Accidental Release Measures

Spill Control and Recovery:
Small Spills: Contain with absorbent material, such as clay, soil, or any commercially available absorbent. Shovel reclaimed liquid into recovery or savage drums for disposal. Refer to CERCLA in Section XV.
Large Spills: Dike and prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section XV.

Section VII – Handling and Storage

Handling Precautions: Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.
Storage Information: Store away from oxidizers. Store in a cool well ventilated area. Keep from heat, sparks, and open flames. Keep container closed when not in use.

Section VIII - Personal Protection Information

Air Exposure Recommendations
Gas, Fumes, Mists          Special Thermal Spray Application
Normal Use                Exceeds TLV
General Ventilation       General Ventilation
3*                         3*

*Respiratory protection codes:
1. None Needed
2. Particle-removing, air purifying respirator (Dusk Mask)
3. Gas and vapor-removing, air purifying respirator (Canister)
4. Full face mask, positive pressure-demand type (Air Supplied)

Eye Protection: Goggles, Face Shield
Skin Protection: Neoprene Gloves, Nitrile Gloves
Other Protective Equipment: Chemical Resistant Apron, Shoes

Section IX - Physical Data
Flash Point: 54°F
Boiling Point: 147°F
Viscosity: 4cst @ 100°F
Density (lbs/gal): 7.38
Vapor Pressure: 96 mmHG @ 100°F
Solubility: Water soluble
Appearance: Clear, Amber Liquid
pH range (neat): 7.0-8.5
Odor: Alcohol
Specific Gravity: 0.884
Vapor Density: >1.0 (Air =1.0)
Pour Point: -30°F

Section X - Reactivity Data
Stability: Stable
Hazardous Polymerization: Will not occur
Conditions to avoid: Keep away from heat, sparks, and flame
Incompatibility (Materials to Avoid): Strong oxidizers
Hazardous Decomposition Products: Fumes produced when heated to decomposition may include: oxides of carbon and NOx

NFPA RATINGS: HEALTH 2, FLAMMABILITY 3, REACTIVITY 0
HIMS RATINGS: FLAMMABILITY 3, REACTIVITY 0, HEALTH 2

Section XI – Toxicological Information
Does product contain any OSHA, NTP or IARC Carcinogens? No
Nature of Hazard (Physiological Effects)
Signs & Systems of Overexposure in the Workplace:
Principle Route of Exposure: Eye or skin contact, inhalation
Eyes: Extremely irritating to the eyes with possible permanent damage depending on the length of exposure and on the first aid action given. Symptoms may include stinging, tearing, redness and swelling.
Skin: Irritating to the skin. Symptoms include redness and burning. Skin adsorption possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use. Can cause allergic contact dermatitis in susceptible individuals.

Inhalation: Prolonged inhalation of mist or vapor in excess of the recommended exposure limits can be harmful, causing nausea, irritation, dizziness, light-headedness, vomiting, fatigue, headache or unconsciousness depending on the first aid action given.

Ingestion: Can cause blindness due to methanol. Ingestion of this product will also cause severe abdominal distress, with nausea, vomiting, and diarrhea probably depending on the first aid action given. See note to physician above.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: None listed in available data.

Section XII – Ecological Information
This product contains methanol. Ingestion of methanol, even in small amounts can cause blindness and death. This material is not listed as a carcinogen by IARC, NTP, or OSHA.

Section XIII – Disposal Considerations
If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D001.

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage, and Disposal Facility). A hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

Section XIV – Transport Information
DOT: Flammable Liquid, N.O.S. (contains Methanol), 3, UN1993, III
Reportable Quantities (RQ): 12,500 lbs
RQ Component(s): Methanol

Section XV – Regulatory Information
The following regulations apply to this product:
Federal Regulations:
OSHA’s Hazard Communication Rule, 219 CFR 1910.1200:
    Methanol - Flammable, Systemic Effects (section XI)
ACGIH/TLV  TWA = 200ppm, STEL 250ppm
OSHA/PEL  TWA = 200ppm, STEL 250ppm

CERCLA/Superfund, 40 CFR 117, 302:
This Product contains methanol, a Reportable Quantity (RQ) Substance and if 12,500 pounds or more of the product are released, it requires notification to the NATIONAL RESPONSE CENTER, WASHINGTON, D.C. at 1-800-424-8802

OSHA/PEL
TWA = 200ppm, STEL 250ppm

SARA/Superfund Amendments and Reauthorizations Act of 1986
Title III, Section 311, 312 – Material Safety Data Sheet Requirements (40 CFR 370):
This product should be reported under the following categories:
- Immediate (acute) health hazard (Primary Hazard)
- Delayed (chronic) health hazard (Primary Hazard)
- Fire hazard (Primary Hazard)
- Sudden release of pressure hazard
- Reactive hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of a hazardous chemical. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Section 313 – List of Toxic Chemicals (40 CFR 372):
- Methanol 67-56-1 Confidential

Toxic Substance Control Act (TSCA) (40 CFR 710):
The chemical ingredients in this product are on the 8 (b) inventory list.

Resource Conservation Recovery Act (RCRA), 40 CFR 261 Subpart C & D:
Consult Section XIII for RCRA Classification

State Regulations:
State Right To Know Laws: This product is regulated in those states using the TLV for methanol as criteria for listing.

Section XVI – Miscellaneous
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