

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: All Weather Foam Concentrate
 Product Code: BUI/FOAMCONC
 Effective Date: March 9, 2010

Manufacturer Information: Becker Underwood, Inc.
 801 Dayton Avenue
 Ames, Iowa 50010
 Information Phone: (515) 232-5907
 Emergency Phone: Chemtrec (800) 424-9300

Hazardous Material Information System:

Health	2
Flammability	2
Physical Hazard	0
Personal Protection	X

Section 2. Ingredients and Hazards Identification

Emergency Overview: Warning!!! Harmful if inhaled, swallowed or absorbed through skin. Severe eye irritant. Skin and respiratory tract irritant.

Potential Acute Health Effects:

Eyes: Severe irritant. Can cause redness, irritation, tissue destruction.

Skin: Harmful if absorbed through skin. Irritant. Can cause redness, inflammation, irritation.

Inhalation: Harmful if inhaled. Can cause headache, dizziness, upper respiratory tract irritation.

Ingestion: Harmful in ingested. Can cause nausea, diarrhea, abdominal cramps.

Section 3. Composition/Information on Ingredients

Hazardous Components		
Component	CAS Number	Weight Percent
*Ethylene Glycol	111-76-2	10-15%
Monobutyl Ether		
Ethyl Alcohol	64-17-5	0-5%

The composition of this material is a trade secret and contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

Section 4. First Aid Measures

Eye Contact: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Contact: In case of contact, immediately wash with plenty of soap and water for at least 5 minutes. Seek medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

Section 5. Fire Fighting Measures

Flash Point: >68 °C (156 °F). Flammability Class: Combustible. Product will burn under fire conditions.
Flammability Limits (vol/vol%): Lower: 1.1 Upper: 19
Fire Fighting Media: Recommended (small fire): dry chemical, carbon dioxide
Recommended (large fire): alcohol foam, universal foam, water spray
Not recommended: water jet (frothing possible)

Special Fire Fighting procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Section 6. Accidental Release Measures

Clean-Up Procedures: Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled and closed container. Dispose of collected material according to federal, state/provincial and local environmental regulations.

Spills and Leaks: Contain the spill or leak to prevent discharges to surface streams or storm sewers. Do not flush down drain.

Section 7. Handling and Storage

Handling: Avoid breathing vapors and mists. Ethylene oxide may collect in container head space. Although concentrations are expected to remain below established exposure limits, provide adequate ventilation when accessing or working with open containers and tanks.

Storage: Minimum/maximum storage temperature is > 4°C (39°F). Store in tightly closed containers. Store in an area that is dry, well-ventilated, away from ignition sources, away from incompatible materials.

Section 8. Exposure Control/Personal Protection

Hazardous Components		Occupational Exposure Limits		
Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
*Ethylene Glycol Monobutyl Ether	111-76-2	25 ppm 120 mg/m ³	25 ppm 121 mg/m ³	10-15%
Ethyl Alcohol	64-17-5	1000 ppm 1900 mg/m ³	1000 ppm 1880 mg/m ³	0-5%

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Engineering controls: General mechanical ventilation can be expected to effectively remove and prevent build up of any vapor or mist generated from handling this product in a closed environment.

Personal Protection:

Eyes: Wear chemical safety glasses with side shields. Wear additional eye protection such as chemical goggles or face shield if splashing or spraying hazard exists. Have an eye wash station available.

Body: To prevent skin contact wear coveralls, apron, boots, or lab coat.

Hands: Avoid skin contact by using chemically resistant gloves.

Respiratory: No respiratory protection required under normal conditions of use. Use local exhaust to control excessive vapors/mists. If excessive vapors or mists persist use appropriate NIOSH/MSHA approved organic vapor/mist respirator.

Other: Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure.

Section 9. Physical and Chemical Properties

Odor	No odor	Vapor Pressure	<23.5 mmHg at 25°C
Color	Clear	% Volatiles by Vol.	<61
Physical state	Liquid	Specific Gravity (H ₂ O = 1)	1-1.03 g/mL at 25°C (77°F)
pH	7-8 at 1 wt/wt%	Solubility	Water soluble
Freezing Point	< -1°C (30°F)	Boiling Point	>100°C (212°F)

Section 10. Stability and Reactivity

Chemical Stability: This material is chemically stable under normal storage and handling conditions.

Hazardous Decomposition: When involved in a fire, burning may evolve noxious fumes which may include oxides of nitrogen, oxides of sulfur, and oxides of carbon.

Hazardous Polymerization: Will not occur.

Incompatibility

Conditions to be avoided are heat, open flame, and sparks.

(Materials to Avoid): Materials to avoid include strong oxidizing agents and strong reducing agents.

Section 11. Toxicological Information

Acute Eye Irritation: Severely irritating, rabbit. Data for ethylene glycol monobutyl ether.

Acute Skin Irritation: Moderately irritating, rabbit. Data for surfactant blend.

Acute Dermal Toxicity: LD50 – lethal dose 50% of test species, 220 mg/kg, mouse. Data for ethylene glycol monobutyl ether.

Acute Inhalation Toxicity: LD50 – lethal concentration 50% of test species, 450 ppm/4 hr, rat. Data for ethylene glycol monobutyl ether.

Acute Oral Toxicity: LD50 – lethal dose 50% of test species, 470 mg/kg, rat. Data for ethylene glycol monobutyl ether. LD50 – lethal dose 50% of test species, 6560, rat. Data for surfactant blend.

Carcinogenic Effects: This product does not contain any ingredient designated by IARC. NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Existing Medical Conditions Aggravated By Exposure: May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

Section 12. Ecological Information

Ecotoxicity: No data available, however the material is not expected to have any deleterious toxic effect.

Environmental Fate: Inherently biodegradable..

Section 13. Disposal Considerations

Waste Disposal Method: Consult state and local regulations regarding the proper disposal of this material.

Container Handling and Disposal: Any containers or equipment used should be decontaminated immediately after use. Dispose of according to all federal, state/provincial and local environmental regulations.

Section 14. Transport Information

D.O.T. Classification: Hazard class...Combustible Liquid
 Shipping name: Combustible Liquid, N.O.S. (Not regulated in containers < 119 Gals)
 Technical Shipping Name: ETHANOL, 2-BUTOXYETHANOL
 ID Number.....NA1993
 Packing Group.....III
 Labels.....None
 Emergency Guide # ...128

Section 15. Regulatory Information

Hazardous Material Information System III:

TSCA Toxic Substances Control Act	All ingredients are listed or exempt from the requirement.
SARA Superfund Amendment and Reauthorization Act	
EPCRA Emergency Planning & Community Right-to-Know Act	
Section 302 Extremely Hazardous Substances	None of the chemicals in this product are listed.
Section 311 and 312 Hazards	<i>Acute:</i> Yes <i>Chronic:</i> No <i>Fire:</i> Yes <i>Pressure:</i> No <i>Reactive:</i> No
Section 313 Toxic Chemical Release Inventory	Ethylene Glycol Monobutyl Ether is reportable under SARA Title III, Section 313 under the category of "N230 Certain Glycol Ethers" which has a de minimis concentration of 1.0%.
CERCLA Hazardous substances	None of the chemicals in this product have an RQ.
Clean Air Act	This material does not contain any hazardous air pollutants, nor any Class 1, 2 ozone depletors.
Clean Water Act	None of the chemicals in this product are listed as Hazardous Substances, Priority or Toxic Pollutants under the CWA.
California Proposition 65 Carcinogens & Reproductive Toxicity (CRT) List:	There are no product listed on California Prop 65

OSHA Regulatory Status: This product is considered hazardous under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Section 16. Other Information

Hazardous Material Information System:

Health	2
Flammability	2
Physical Hazard	0
Personal Protection	X

Revision:	2
Revision date:	March 9, 2010
Supersedes:	January 10, 2008
Created By:	GF

The information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of Becker Underwood's knowledge. Because use conditions and applicable laws may differ from one location to another and may change with time, Recipient is responsible for determining whether the information is appropriate for recipient's use. Since Becker Underwood has no control over how this information may be ultimately used, all liability is expressly disclaimed and Becker Underwood assumes no liability.