

**MATERIAL SAFETY DATA SHEET**

Winfield Solutions, LLC

**PRODUCT NAME(S)**For Emergency Call: 877-424-7452 or  
Chem Trec: 800-424-9300**HEAT WAVE**

Effective Date: 09/19/07

**I. IDENTIFICATION****CHEMICAL NAME OF PRIMARY COMPONENT(S):** Surfactant Blend**FORMULA:** N/A**MOLECULAR WEIGHT:** N/A**SYNONYMS:** Agricultural Foam Marker **CAS # & NAME:** N/A Blend**EPA Reg No.** N/A**II. INGREDIENTS/SUMMARY OF HAZARDS**

(H)/INGREDIENT(S)	CAS NUMBER	OSHA HAZARD NON-HAZARD (NH)	PERCENT
Surfactant Blend	N/A	Yes	77
2 – Butoxyethanol	111-76-2	Yes	19
Ethanol	64-17-5	Yes	< 4

	NFPA <sup>1/</sup>	HMIS <sup>2/</sup>
HEALTH	2	2
FIRE	2	2
REACTIVITY	0	0

1/ National Fire Protection Association Rating

2/ Hazardous Materials Identification System

(4 = Extreme/Severe 3 = High/Serious 2 = Moderate 1 = Slight 0 = Minimum)

**SARA TITLE III HAZARD CLASSIFICATION**

IMMEDIATE (ACUTE) HEALTH	Yes
DELAYED (CHRONIC) HEALTH	No
FIRE	YES
SUDDEN RELEASE OF PRESSURE	No
REACTIVE	No

**III. PHYSICAL DATA**

**SPECIFIC GRAVITY:** 1.0 (+/- .05) at 25 C  
**BOILING POINT:** N/A  
**VAPOR PRESSURE:** N/A  
**SOLUBILITY IN WATER:** Soluble  
**APPEARANCE:** Pale yellow liquid  
**ODOR:** Mild

**IV. FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** 107° F (Setaflash closed cup)  
**FLAMMABLE LIMITS IN AIR:** N/A  
**AUTOIGNITION TEMPERATURE:** N/A  
**EXTINGUISHING MEDIA:** Foam, dry chemical, CO<sub>2</sub>, Large fires: alcohol foam, universal foam, water spray  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Product will burn under fire conditions, Vapors may travel a considerable distance to a source of ignition and flash back along vapor trail. Closed containers may explode (due to the build up of pressure) when exposed to extreme heat.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Use self-contained breathing apparatus when fighting any fire in an enclosed area and full protective clothing..

**V. REACTIVITY DATA**

**STABILITY:** Stable  
**CONDITIONS TO AVOID:** Excessive heat and open flame, spark.  
**MATERIALS TO AVOID:** Strong oxidizing or reducing agents  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Upon burning – oxides of sulfur and carbon, nitrogen  
**HAZARDOUS POLYMERIZATION:** Will not occur

**VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES**

**TOXICOLOGY DATA:**  
**Acute Oral LD<sub>50</sub> (rat):** Not conducted  
**Acute Dermal LD<sub>50</sub> (rat):** “  
**Acute Inhalation LC<sub>50</sub>(4hr rat):** “  
**Eye Irritation (rabbit):** “  
**Dermal Irritation (rabbit):** “  
**Dermal Sensitization:** “

**EXPOSURE LIMITS:**

CHEMICAL NAME(S)	ACGIH (TWA)	OSHA (TWA)
2-Butoxyethanol	20 ppm	25 ppm
Ethanol	1000 ppm	1000 ppm

**CARCINOGENICITY, TERATOGENICITY, MUTAGENICITY:**

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

**PRIMARY ROUTES OF ENTRY:** Ingestion, skin absorption.

**EFFECTS OF SINGLE OVEREXPOSURE:**

**Swallowing:** Harmful if swallowed. Can cause nausea, vomiting, and diarrhea.

**Skin Absorption:** Irritant. Can cause redness, inflammation, irritation. May be harmful if absorbed through skin. May produce symptoms similar to those from inhalation.

**Inhalation:** May be harmful if inhaled. Mists may cause upper respiratory tract irritation, drowsiness, depression, dizziness and headache.

**Eyes:** Irritation can occur causing redness, tearing and pain.

**EFFECTS OF REPEATED OVEREXPOSURE:** Same as acute overexposure.

**EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE:** Skin contact may aggravate existing skin disease.

**EMERGENCY AND FIRST AID PROCEDURES:**

**Swallowing:** Call a poison control center or doctor. If person is conscious and alert, give 1 – 2 glasses of water to drink. Do not induce vomiting unless directed to by poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Skin:** Remove contaminated clothing. Immediately wash skin with plenty of soap and water for at least 5 minutes. Call a poison control center or doctor for treatment advice if irritation develops or persists. Clean contaminated clothing and shoes before reuse.

**Inhalation:** If respiratory irritation or distress occurs remove person to fresh air. If not breathing call 911 or an ambulance, and apply artificial respiration (preferably mouth-to-mouth).

**Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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**VII. PRECAUTIONS FOR SAFE HANDLING AND USE**


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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Material should be contained then collected and disposed of in a proper manner. Avoid discharge into surface waters.

**WASTE DISPOSAL METHOD:** Dispose of in an approved waste disposal facility in accordance with all Federal, state and local regulations.

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent) adding rinse water to application tank. Offer container for recycling or dispose of in a sanitary landfill or by other means approved by state and local regulations.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** Keep out of reach of children. Ship and Store Above 40° F. Keep in original container tightly closed.

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### VIII. SPECIAL PROTECTION INFORMATION

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#### PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:

- Manufacture or formulation of this product.
- Repair and maintenance of contaminated equipment.
- Clean up of leaks and spills.
- Any other activity that may result in hazardous exposures

**RESPIRATORY PROTECTION:** None required if adequate ventilation.

**VENTILATION:** Local exhaust

**PROTECTIVE CLOTHING:** Chemical resistant gloves, coveralls, apron and foot coverings.

**EYE PROTECTION:** Safety goggles or face shield.

**USER SAFETY RECOMMENDATIONS:** Safety showers and eye wash should be easily accessible.

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### IX. REGULATORY STATUS

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#### TSCA INVENTORY STATUS:

**TRANSPORTATION STATUS:** Cases and 30 gal. drums not regulated.

#### DOT INFORMATION:

Container Capacity	Proper Shipping Name	Hazard Class	Label	Packing Group
Greater than 119 gallons	Combustible Liquid, N.O.S., (2-Butoxyethanol, Ethanol), 3, NA 1993	3	Combustible 1993	III

#### SARA TITLE III

**Section 302-304 (40 CFR 350):** No

**Extremely Hazardous Substance (EHS):** No

**Section 312, Reporting (40 CFR 370):** No

**SARA/OSHA Hazardous Chemical Reporting Quantity:** ? lbs

**Section 313, Toxic Chemicals:** None

**Reportable Quantity (RQ):**

#### RCRA HAZARDOUS WASTE:

**Inventory Issues:** All functional components of this product are listed on the TSCA Inventory.

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### X. REFERENCES

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THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH,  
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