



NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Regulated in bulk packaging (119 gallons); see Section 14 for additional information.
1	Slight	2	Health		
2	Moderate	2	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name: Promark® EPA Registration #: Exempt Product ID/Unity #: 10000756, 60319715 Common Name: Agricultural adjuvant Chemical Description: Foam marker concentrate Recommended Uses: Adjuvant – See product label for full directions for use. Restrictions for Use: See product label for any restrictions on use.	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Clear, viscous liquid with no odor. Combustible liquid. Causes serious eye irritation and skin irritation.	
POTENTIAL HEALTH EFFECTS: Eyes: Causes serious eye irritation with potential for lasting damage. Skin: Causes skin irritation. Inhalation: May cause irritation of the upper respiratory tract and lungs. Ingestion: May cause gastric upset. Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to mist. Skin contact may aggravate existing skin disease. Chronic Health Effects: None known	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 1; Skin Irritation Category 2; Flammable Liquid Category 4	
SIGNAL WORD: DANGER	
HAZARD STATEMENTS: Causes serious eye damage. Causes skin irritation. Combustible liquid.	
Percent of product with unknown toxicity: 0%	
PRECAUTIONARY STATEMENTS: Prevention: Wash hands thoroughly after use. Wear protective gloves, protective clothing, eye protection, and face protection. Keep away from flames and hot surfaces. - No smoking.	

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Response:	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. In case of fire: Use foam, carbon dioxide, water spray or fog or dry chemical to extinguish.
Storage:	Store in a well-ventilated place. Keep cool.
Disposal:	Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Surfactant blend	>83.5%	*
Ethylene glycol monobutyl ether	12.5%	111-76-2
Ethanol	2.75%	64-17-5
Polyethylene glycol	1.5%	25322-68-3
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(j).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES	
Inhalation:	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
Ingestion:	Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Eyes:	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media:	Foam, carbon dioxide, dry chemical, water spray or water fog
Unsuitable Extinguishing Media:	Water jet (frothing possible)
Special Fire Fighting Procedures:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Hazardous Combustion Products:	Carbon oxides, sulfur oxides and/or nitrogen oxides
Unusual Fire and Explosion Hazards:	Product will burn following evaporation of water. Vapors may spread long distances and ignite.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Environmental Precautions:	Product is toxic to aquatic life. Do not allow spilled product to enter sewers or waterways.
Methods for Containment:	Contain spilled liquid by diking area with sand or earth. DO NOT use combustible materials such as sawdust.
Methods for Clean-up:	Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Do not use combustible material such as sawdust. Scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container. Eliminate all ignition sources.
Other Information:	None known

SECTION 7: HANDLING AND STORAGE

Handling: Ensure adequate ventilation as ethylene oxide may accumulate in container head space. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Ensure all equipment is electrically grounded before beginning transfer operations. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in cool, dry areas away from children, feed and food products and sources of heat, flame or ignition. Protect from freezing. Protect package from physical damage. Take measures to prevent the buildup of electrostatic charge.

Minimum Storage Temperature: 39°F

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Ethylene glycol monobutyl ether	25 ppm/120 mg/m ³ (TWA)	20 ppm (TWA)	5 ppm/24 mg/m ³ (TWA) 700 ppm (IDLH)
Ethanol	1,000 ppm/1,900 mg/m ³ (TWA)	1,000 ppm (STEL)	1,000 ppm/1,900 mg/m ³ (TWA) 3,300 ppm (IDLH)

Respiratory Protection: When handling this product in areas which are not properly ventilated wear NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates and organic vapors.

Engineering Controls: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemical resistant gloves to prevent skin contact.

Eye Protection: To avoid contact with eyes, wear chemical goggles or full face shield and safety glasses. Contact lenses are not protective eye devices. An emergency eyewash or water supply should be readily accessible to the work area.

Other Protective Clothing or Equipment: Wear long-sleeve shirt, long pants and chemical resistant shoes plus socks to prevent skin contact.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.00 - 1.04
Vapor Pressure (mm Hg):	<23.5 mmHg (31.33 hPa) (77°F (25°C))	Density (lbs/gallon):	8.35 - 8.68 lbs/gallon
Vapor Density (Air=1):	Not determined	Freezing Point:	<30°F (-1°C)
Solubility in Water (wt %):	Soluble	Boiling Point/Range:	>212°F (100°C)
Viscosity:	50 mPa.s (77°F (25°C))	pH (1% m/v):	7.0 - 8.0
Appearance and odor:	Clear, viscous liquid with no odor	Flash Point:	>156°F (>69°C)

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Combustible liquid

Chemical Stability: This product is stable at ambient temperature and pressure, under normal storage and handling conditions.

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Avoid high temperatures. Avoid heat, flame, and sparks.

Incompatible Materials: Strong oxidizing agents and strong reducing agents.

Hazardous Decomposition Products: Carbon oxides, sulfur oxides, and nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects:	Causes serious eye irritation with the potential for lasting damage.
Skin Effects:	Causes skin irritation.
Acute Inhalation Effects:	LC50 is not determined
Acute Oral Effects:	LD50 is not determined
Specific Target Organ Toxicity:	None known

CHRONIC TOXICITY

Chronic Effects:	None known
Carcinogenicity:	Ethylene glycol monobutyl ether is a confirmed animal carcinogen with unknown relevance to humans (ACGIH). Ethanol is a confirmed animal carcinogen with unknown relevance to humans (ACGIH).
Mutagenicity:	No component is known to have a mutagenic effect.
Teratogenicity:	No component is known to have a teratogenic effect.
Reproductive Toxicity:	No component is known to have an effect on the reproductive system.

POTENTIAL HEALTH EFFECTS:

Eyes:	Causes serious eye irritation with potential for lasting damage.
Skin:	Causes skin irritation.
Inhalation:	May cause irritation of the upper respiratory tract and lungs.
Ingestion:	May cause gastric upset.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: According to data on the components, this product is anticipated to be toxic to aquatic life both acutely and with long lasting effects.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity:	Not determined
Aquatic Invertebrate Acute Toxicity:	Not determined
Aquatic Plant Toxicity:	Not determined
Bird Acute and Prolonged Toxicity:	Not determined
Honeybee Toxicity:	Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility:	Not determined
Persistence and degradability:	Not determined
Bioaccumulative Potential:	Not determined
Other adverse effects:	Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.
RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT: (Ground)	This product is not regulated by the U.S. Department of Transportation in quantities less than 119 gallons. For quantities of 119 gallons or greater: NA1993, Combustible liquid n.o.s. (ethanol, 2-butoxyethanol, 3, PGIII While the hazard class is a 3, the product is classified as combustible rather than flammable as allowed by 49 CFR 173.120(b)(2)
IMDG: (Sea)	Not determined
IATA: (Air)	Not determined
TDG: (Canada)	Not determined

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All components are listed or are exempt from listing on the TSCA inventory.		
SARA Title III Information:		
Section 302 - Extremely hazardous substances: None listed		
Section 311/312 - Hazard Categories: Immediate (Acute), Fire		
Section 313 - The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372: Ethylene glycol monobutyl ether (CAS # 111-76-2) 12.5%		
CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA): 1,4-dioxane (CAS # 123-91-1) has an RQ of 100 lbs. which is not met with an practical quantity of product. Ethylene oxide (CAS # 75-21-8) has an RQ of 10 lbs. which is not met with an practical quantity of product. Diethanolamine (CAS # 111-42-2) has an RQ of 100 lbs. which is not met with an practical quantity of product.		
California Proposition 65: WARNING: This product contains an ingredient known to the state of California to cause cancer and/or reproductive harm.		
U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):		
Chemical Name	CAS #	State(s)
Ethylene glycol monobutyl ether	111-76-2	MA, NJ, PA
Ethanol	64-17-5	MA, NJ, PA
Polyethylene glycol	25322-68-3	MN
Canadian Domestic Substances List: All components are listed on the DSL.		
WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.		

SECTION 16: OTHER

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.	
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