

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

SECTION 1: IDENTIFICATION	
Product Name: Preference® EPA Registration #: Exempt Product ID/Unity #: 10000748, 10000749, 10013089, 10016601, 10126500, 10127435, 60319215, 60319299 Common Name: Agricultural adjuvant Chemical Description: Non-ionic surfactant and anti-foaming agent Recommended Uses: Adjuvant – See product label for full directions for use. Restrictions for Use: See product label for any restrictions on use.	
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Dark brown liquid with organic odor. Flammable liquid. Causes severe eye irritation. May be harmful if inhaled.	
POTENTIAL HEALTH EFFECTS: Eyes: Causes severe eye irritation. Skin: Not anticipated to cause skin irritation with short-term exposure. Long term exposure may result in redness. Inhalation: May cause irritation of the upper respiratory tract and lungs. Ingestion: May cause irritation of the digestive tract. Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to mist. Chronic Health Effects: Repeated exposure may cause damage to the kidneys and/or liver.	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 2A; Acute Inhalation Toxicity Category 4; Flammable Liquid Category 3; Specific Target Organ Toxicant – Repeated Exposure Category 2	
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: Causes serious eye irritation. Harmful if inhaled. Flammable liquid and vapor. May cause damage to kidneys and/or liver through prolonged or repeated exposure.	
Percent of product with unknown toxicity: 0%	

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PRECAUTIONARY STATEMENTS:

Prevention: Wash hands thoroughly after handling. Wear eye and face protection. Avoid breathing mist or spray. Use only outdoors or in a well-ventilated area. Keep away from heat, sparks, open flames, hot surfaces. - No Smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection (See Section 8).

Response: **If in eyes:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) or doctor for treatment advice if you feel unwell. **If on skin (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. **In case of fire:** Use alcohol-resistant foam, universal foam, water spray or water fog 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. #
Nonylphenol polyethylene glycol ether	55.0 – 65.0%	127087-87-0
Isopropyl alcohol	10.0%	67-63-0
Poly(ethylene) oxide	<2.0%	25322-68-3
*Ingredients not specifically listed are non-hazardous and 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: Alcohol-resistant foam, universal foam, water spray or water fog

Unsuitable Extinguishing Media: Water jet

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: Toxic gases may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.

Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat. Product may burn under fire conditions. Containers adjacent to fire may be cooled by a stream of water.

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 has shown some toxicity to aquatic organisms. 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. Vacuum, 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. Immediately clean up spills that occur during handling. Keep containers closed when not in use. 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 or flame. Protect from freezing. Protect package from physical damage.

Minimum Storage Temperature: 32°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
Isopropyl alcohol	980 mg/m ³ (400 ppm) TWA	200 ppm TWA 400 ppm STEL	980 mg/m ³ (400 ppm) TWA
Poly(ethylene) oxide	10 mg/m ³ TWA		

Respiratory Protection: Inhalation of this product will cause irritation of the respiratory tract. When handling this product in areas which are not ventilated or where exposure limits are exceeded, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for 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 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):	1.002
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	8.3 – 8.4 lbs/gallon
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Disperses in water	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH:	5.7
Appearance and odor:	Dark brown liquid with organic odor.	Flash Point:	103°F

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Flammable 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 excessive heat and freezing temperatures

Incompatible Materials: Strong acids and bases

Hazardous Decomposition Products: Oxides of sulfur, nitrogen, and other chemicals may be formed in a fire situation.

Carbon monoxide and other asphyxiates may form as well.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Causes severe eye irritation.

Skin Effects: LD50 >5,050 mg/kg (albino rats). Non-irritant (based upon animal testing)

Acute Inhalation Effects: LC50 > 2.18 mg/L (albino rats)

Acute Oral Effects: LD50 > 5,000 mg/kg (albino rats)

Specific Target Organ Kidneys, liver

Toxicity:

CHRONIC TOXICITY

Chronic Effects: Repeated exposure may cause damage to the kidneys and/or liver.

Carcinogenicity: No component is known to have a carcinogenic effect.

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 severe eye irritation.

Skin: Not anticipated to cause skin irritation with short-term exposure. Long term exposure may result in redness.

Inhalation: May cause irritation of the upper respiratory tract and lungs.

Ingestion: May cause irritation of the digestive tract.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is considered slightly toxic to aquatic organisms according to the Environmental Protection Agency's aquatic toxicity categories.

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: *Pimephales promelas* (Fathead Minnow) – NOEC = 1.6 mg/L; LOEC = 8.0 mg/L; 96hr LC50 = 18.0 mg/L
Oncorhynchus mykiss (Rainbow Trout) – NOEC = 1.6 mg/L; LOEC = 8.0 mg/L; 96hr LC50 = 13.0 mg/L

Aquatic Invertebrate Acute Toxicity: *Daphnia magna* – NOEC = 8.0 mg/L; LOEC = 40.0 mg/L; 48hr EC50 = 18.0 mg/L

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. If product is disposed of as purchased the following code may apply – D001.

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: UN1993, Flammable liquid, n.o.s. (Isopropanol), 3, PG III
IMDG: (Sea)	UN1993, Flammable liquid, n.o.s. (Isopropanol), 3, PG III
IATA: (Air)	UN1993, Flammable liquid, n.o.s. (Isopropanol), 3, PG III
TDG: (Canada)	UN1993, Flammable liquid, n.o.s. (Isopropanol), 3, PG III

SECTION 15: REGULATORY INFORMATION		
TSCA Inventory: All components are listed on the TSCA inventory.		
SARA Title III Information:		
Section 302 - Extremely hazardous substances: None listed		
Section 311/312 – Hazard Categories: Immediate (Acute), Delayed (Chronic), 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:		
Isopropyl alcohol (CAS# 67-63-0)		
CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):		
None listed		
California Proposition 65: This product does not contain any ingredients 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)
Isopropyl alcohol	67-63-0	CT, IL, MA, MN, NJ, PA, RI
Poly(ethylene) oxide	25322-68-3	MN
Canadian Domestic Substances List: Not determined		
WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.		

SECTION 16: OTHER	
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