


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least			Not regulated by the U.S. DOT as a hazardous material in quantities less than 5.7 gallons. See Section 14 for additional information.	
1	Slight	1	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
<b>Product Name:</b> Aqua-King Plus® <b>EPA Registration #:</b> Exempt <b>Product ID/Unity #:</b> 1400362 <b>Common Name:</b> Agricultural adjuvant <b>Chemical Description:</b> Spreader-Activator with Buffering Agents <b>Recommended Uses:</b> Adjuvant – See product label for full directions for use. <b>Restrictions for Use:</b> See product label for any restrictions on use.	<b>MEDICAL EMERGENCY TELEPHONE NUMBER:</b> 1-877-424-7452 (24hrs)  <b>Non-Emergency Business Inquiries:</b> 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
<b>Manufactured For:</b> WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	
<b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:</b> <b>CHEMTREC 1-800-424-9300 (24 hours)</b>	

SECTION 2: HAZARDS IDENTIFICATION			
<b>EMERGENCY OVERVIEW:</b> Viscous, blue liquid with a slight fatty acid odor. Causes serious eye irritation and skin irritation. Harmful if swallowed and may cause respiratory irritation.			
<b>POTENTIAL HEALTH EFFECTS:</b> <b>Eyes:</b> Causes moderate but temporary eye irritation including redness, tearing, blurred vision and discomfort. <b>Skin:</b> Causes skin irritation including defatting and dermatitis. Prolonged exposure may cause more severe irritation such as local redness and swelling. <b>Inhalation:</b> May cause irritation of the upper respiratory tract and lungs. <b>Ingestion:</b> May cause severe abdominal irritation, nausea, vomiting and diarrhea. <b>Preexisting Conditions:</b> Preexisting respiratory conditions may be aggravated by exposure to mist. <b>Chronic Health Effects:</b> None known			
Carcinogenicity	NTP: Not listed	IARC: Not listed	OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> Eye Irritation Category 2A; Skin Irritation Category 2; Acute Oral Toxicity Category 4; Specific Target Organ Toxicity – Single Exposure – Category 3			
<b>SIGNAL WORD:</b> WARNING			
<b>HAZARD STATEMENTS:</b> Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. Harmful if swallowed.			
<b>Percent of product with unknown toxicity:</b> 0%			
<b>PRECAUTIONARY STATEMENTS:</b> <b>Prevention:</b> Wash hands thoroughly after handling. Wear protective gloves and eye and face protection. Avoid breathing mist or spray. Use only outdoors in a well-ventilated area. Do not eat, drink or smoke when using this product.			

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<b>Response:</b>	<b>If in eyes:</b> Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. <b>If eye irritation persists:</b> Get medical attention. <b>If on skin:</b> Wash with plenty of water. <b>If skin irritation occurs:</b> Get medical attention. Take off contaminated clothing and wash before reuse. <b>If Swallowed:</b> Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. Rinse mouth. <b>If inhaled:</b> 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.
<b>Storage:</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal:</b>	Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Proprietary blend of surfactants and formulation aids	90.0 – 95.0%	*
Phosphoric acid	<5.0%	7664-38-2
Glycol ethers	<2.0%	*
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES	
<b>Inhalation:</b>	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Ingestion:</b>	Seek medical attention or call a poison control center immediately 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.
<b>Eyes:</b>	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.
<b>Skin:</b>	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	
<b>Suitable Extinguishing Media:</b>	Foam, carbon dioxide, dry chemical, water spray or water fog
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Special Fire Fighting Procedures:</b>	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.
<b>Hazardous Combustion Products:</b>	Carbon oxides, sulfur oxides and/or nitrogen oxides
<b>Unusual Fire and Explosion Hazards:</b>	None known

SECTION 6: ACCIDENTAL RELEASE MEASURES	
<b>Personal Precautions:</b>	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
<b>Environmental Precautions:</b>	Do not allow spilled product to enter sewers or waterways.
<b>Methods for Containment:</b>	Contain spilled liquid by diking area with sand or earth. DO NOT use combustible materials such as sawdust.
<b>Methods for Clean-up:</b>	Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
<b>Other Information:</b>	Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains glycol ethers with a reportable quantity (RQ) of 1 lb. See Section 15 for additional information.

**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. Store between 40°F and 120°F.

**Minimum Storage Temperature:** 40°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
Phosphoric acid (CAS # 7664-38-2)	1 mg/m3 TWA; 3 mg/m3 STEL	1 mg/m3 TWA; 3 ppm STEL	1 mg/m3 TWA; 3 mg/m3 STEL

**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 acid gases.

**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/Hygiene 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**

<b>Physical State:</b>	Liquid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.05 (typical)
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Density (lbs/gallon):</b>	8.76 lbs/gallon (typical)
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	Not determined
<b>Solubility in Water (wt %):</b>	Soluble, hazy	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>pH (0.5% solution in distilled water):</b>	3.5 – 4.5
<b>Appearance and odor:</b>	Viscous, blue liquid with slight fatty acid odor	<b>Flash Point:</b>	>200°F

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** None known

**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 acids

**Hazardous Decomposition Products:** Carbon oxides and other hazardous gases

**SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY**

**Eye Effects:** May cause severe irritation to eyes including redness, tearing, blurred visions and discomfort.  
**Skin Effects:** LD50 >3,000 mg/kg.  
**Acute Inhalation Effects:** LC50 is not determined. Inhalation of mist may cause respiratory irritation including discomfort to the nose and throat.  
**Acute Oral Effects:** LD50 >3,300 mg/kg.  
**Specific Target Organ Toxicity:** None known

**CHRONIC TOXICITY**

**Chronic Effects:** None known  
**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 moderate but temporary eye irritation including redness, tearing, blurred vision and discomfort.  
**Skin:** Causes skin irritation including defatting and dermatitis. Prolonged exposure may cause more severe irritation such as local redness and swelling.  
**Inhalation:** May cause irritation of the upper respiratory tract and lungs.  
**Ingestion:** May cause severe abdominal irritation, nausea, vomiting and diarrhea.

**SECTION 12: ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** Not determined

**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:** This product is not regulated by the U.S. Department of Transportation for ground transportation in quantities less than 5.7 gallons per container.  
**(Ground)**  
**IMDG:** Not determined  
**(Sea)**  
**IATA:** Not determined  
**(Air)**  
**TDG:** Not determined  
**(Canada)**

**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)

**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:

Glycol ethers ≤2.0%

**CERCLA -** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Glycol ethers have an RQ of 1 lb which is reached with 5.7 gallons of product.

Phosphoric acid has an RQ of 5,000 lbs which is reached with 5707 gallons of product.

Ethylene oxide (CAS # 75-21-8) <0.0001% has an RQ of 10 lbs which is not reached with any practical quantity of product.

**California Proposition 65:** This product contains a chemical 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)
Glycol ethers	*	NJ
Phosphoric acid	7664-38-2	MA, NJ, PA

**Canadian Domestic Substances List:** Not determined

**WHMIS Classification:** This product is not approved for use in Canada. WHMIS classification is not determined.

**Other Information:** A maximum of 1 ppm Ethylene Oxide (CAS # 75-21-8) may be present in this product. The OSHA PEL and the ACGIH TLV for Ethylene Oxide are 1 ppm. Ethylene Oxide is a NTP, IARC, and OSHA carcinogen. Ethylene Oxide has also been determined to be a reproductive hazard. The trace levels of Ethylene Oxide in this product are not expected to result in acute or long-term hazards when handled according to the precautions set forth in this SDS. However, Ethylene Oxide may accumulate in the container headspace and be released into the ambient environment. It is the responsibility of the employer to comply with OSHA Ethylene Oxide standards (29 CFR 1910.1047).

**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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**Sections Revised:** All