

**FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300**

Section 1—Chemical Product and Company Identification	
Product Name:	Aqua-King Plus®
Common Name:	Nonionic surfactant blend
Chemical Description:	Nonionic surfactant blend
Manufacturer's Name: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	Medical Emergency Telephone Number: 1-877-424-7452 MSDS Creation Date: 06/04/2011

Section 2—Hazards Identification
Emergency Overview: Viscous blue liquid with slight characteristic odor. Vapors or mist may be irritating and cause discomfort in nose and throat. Product may cause oxygen deficiency in confined spaces; follow all OSHA regulations pertaining to confined space entry. See health effects below.
CAUTION: Keep out of reach of children.
Route(s) of Entry: Eyes, Inhalation, Skin, and Ingestion.
Health Hazards (Acute and Chronic): Inhalation: Inhalation of high mist concentrations may cause headaches and dizziness. Eyes: May cause severe eye irritation upon direct contact. Skin: Prolonged contact with skin may cause drying and irritation. Ingestion: Harmful if swallowed.
Medical Conditions Generally Aggravated by Exposure: None known. Preexisting respiratory conditions may be aggravated by exposure to mists.

Section 3—Composition Information on Ingredients		
Ingredient	% (wt)	CAS reg. #
Alkylaryl polyethoxyethanol	<70.0%	
Phosphoric acid	<5.0%	7664-38-2
Oleic acid	<10.0%	112-80-1

*Ingredients not specifically listed are non-hazardous and considered to be confidential business information.

NFPA HAZARD RATING:			
0	Least		
1	Slight	1	Health
2	Moderate	0	Flammability
3	High	0	Reactivity
4	Severe		

Section 4—First Aid Measures	
Inhalation:	Remove person to fresh air and assist breathing as needed. Seek medical attention if irritation persists. Call a poison control center or doctor for further treatment advice.
Ingestion:	Seek medical attention or call a poison control center immediately. Do not induce vomiting unless told to do so by a poison control center or doctor.
Eyes:	Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation persists.
Skin:	Remove contaminated clothing and wash before re-using. Flush skin with water, and then wash with soap and water. Seek medical attention if skin becomes irritated.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5—Fire and Explosion Hazard Data

Extinguishing Media: Use dry chemical, foam or carbon dioxide (CO₂) to extinguish flames. Use water spray to cool fire-exposed containers and to protect personnel. Water may be ineffective in firefighting.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full bunker gear. Smoke and fumes from fire may contain hazardous components.

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. Contain run-off by diking to prevent contamination of water supplies.

Section 6—Accidental Release Measures

Small Spills: Clean-up personnel should protect against mist inhalation and skin contact. Avoid generating mists. Spills should be cleaned up immediately to prevent spreading.

Large Spills: Ventilate area. Avoid breathing vapor. Clean-up personnel should protect against mist inhalation and eye and skin contact. Avoid generating mist.

Containment: Do not release into sewers or waterways. Dike spills to prevent contamination to water supplies. Contain spills and absorb liquids by covering with clay or other absorbent material. Vacuum, scoop, or sweep up waste and place in a container for disposal.

Section 7—Precautions for Safe Handling and Use

Precautions to Be Taken in Handling and Storage: Store in cool, dry areas away from children, feed and food products and sources of heat. Immediately clean up spills that occur during handling or storage. Protect from freezing. Keep containers closed when not in use.

Other Precautions: Consult Local, State, and Federal regulations pertaining to storage and disposal.

Section 8—Control Measures/Personal Protection

Exposure Guidelines: Phosphoric acid (CAS# 7664-38-2) 3 mg/m³ OSHA PEL

A maximum of 1 ppm of ethylene oxide (EO) (75-21-8) may be present in this product. The OSHA PEL and the ACGIH TLV EO are 1 (one) ppm. Ethylene oxide is a NTP, IARC, and OSHA carcinogen. EO has also been determined to be a reproductive hazard. The trace levels of EO in this product are not expected to result in acute or long-term hazards when handled according to the precautions set forth in this MSDS. However, EO 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).

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a properly FIT TESTED MSHA/NIOSH-approved respirator.

Ventilation: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemically protective gloves.

Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices.

Other Protective Clothing or Equipment: Wear chemically protective boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

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

Section 9—Physical/Chemical Characteristics

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.05 (+/- 0.05)
Vapor Pressure (mm Hg):	Not determined	Freezing Point:	Not determined
Vapor Density (Air=1):	Not determined	Boiling Point:	Not determined
Solubility in Water (wt %):	Complete, hazy	pH (0.5% solution):	3.5 – 4.5
Appearance and odor:	Viscous, blue liquid with slight characteristic odor	Flash Point:	>200°F (TCC)

Section 10—Reactivity Data

Stability: Product stable at room temperature in closed containers under normal storage and handling conditions.

Chemical Incompatibilities: Strong acids and oxidizers.

Conditions to Avoid: Avoid acids and strong oxidizing agents.

Hazardous Decomposition Products: Incomplete combustion may yield carbon monoxide and other hazardous gas..

Hazardous Polymerization: Will not occur.

Section 11—Toxicological Information

Eye Effects: Irritation

Skin Effects: May cause irritation

Acute Inhalation Effects: Not determined

Acute Oral Effects: Not determined

Chronic Effects: Not determined

Mutagenicity: Not determined

Teratogenicity: Not determined

Carcinogenicity: NTP: Not available IARC: Not available OSHA: Not Available

Section 12—Ecological Information

No information available.

Section 13—Disposal Considerations

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container: Triple rinse (or equivalent) the empty containers. Then offer for recycling or reconditioning.

RCRA characteristics: None known.

Section 14—Transport Information

Not regulated by the U.S. DOT as a hazardous material.

Section 15—Regulatory Information

TSCA Inventory: Not determined

SARA Title III, Section 302: None

SARA Title III, Section 311/312: Immediate: **Yes** Delayed: **No**

Sudden Release of Pressure: **No** Fire: **No** Reactive: **No**

SARA Title III, Section 313: None

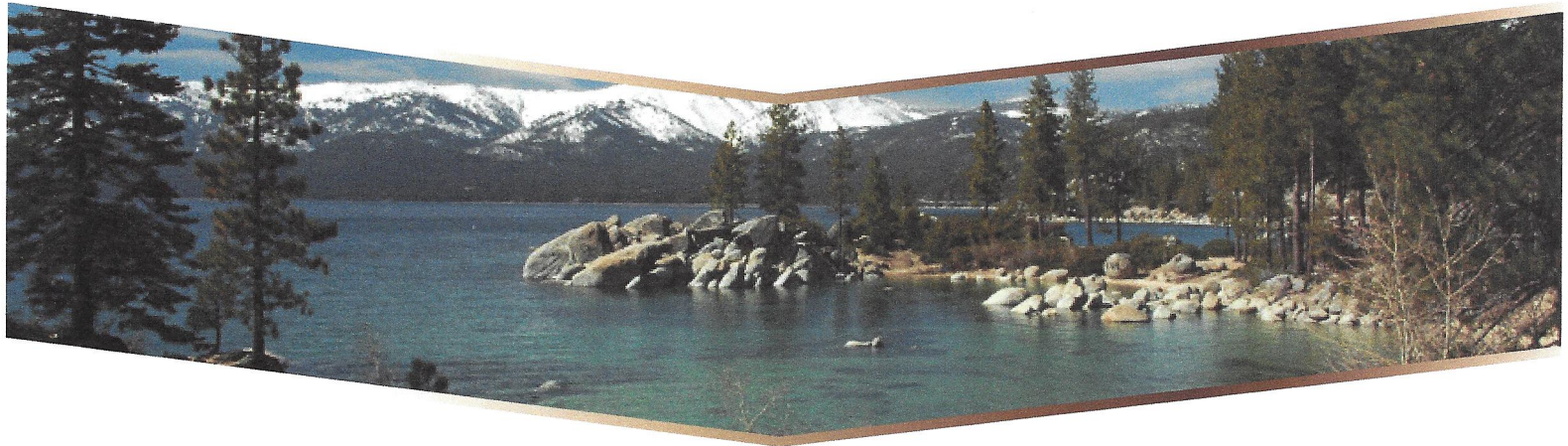
CERCLA: Phosphoric acid (CAS # 7664-38-2) has a reportable quantity of 5,000 lbs which is not reachable with any packaged quantity.

PROPOSITION 65: WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

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.

Aqua Neat®



Aqua Neat® Rises to the Top in Aquatic Weed Control.

Uncontrolled weeds in aquatic areas can block water channels to inhibit irrigation and boat traffic and cause silt buildup, obstruct sight lines and become breeding grounds for insects. For non-selective aquatic weed control, nothing beats Aqua Neat®. Aqua Neat controls almost 200 species of emerged weeds, including a wide range of broadleaf weeds, sedges and annual and perennial grasses, in and around flowing or stagnant fresh and estuaries or brackish water. Aqua Neat gives managers the convenience to control weeds in public, agricultural, commercial or residential settings.

TOUGH AQUATIC WEED SOLUTION

- Excellent control of cattail, willow and johnsongrass
- Non-volatile
- Perfect for use in flowing, non-flowing or transient bodies of water
- Can be used in wildlife restoration and management areas

EPA REG. NO.	228-365
ACTIVE INGR.	glyphosate (53.8%)
FORMULATION	liquid
CHEM. FAMILY	glycine derivative
GROUP NO.	9
SIGNAL WORD	caution
RESTRICTED	no
PACKAGE SIZE	2 x 2.5 gal, 30 gal, 250 gal tote, bulk



RESIDENTIAL



COMMERCIAL



TURF



GOLF TURF



POST-EMERGE



AQUATIC



Nufarm

Grow a better tomorrow.

Aqua Neat®

KEY USES

Aquatic sites, industrial, recreational and public areas, wildlife habitat restoration and management areas

KEY WEEDS CONTROLLED

(See product label for complete list)

ANNUAL WEEDS:

Barley
Barnyardgrass
Chickweed, mouseear
Dwarf dandelion
Foxtail
Kochia
Lambsquarters, common
Morningglory
Mustard; wild, tumble, tansy, blue
Pigweed; redroot, smooth
Shepherd's-purse
Thistle, Russian
Velvetleaf
Wheat
Witchgrass

PERENNIAL WEEDS:

Alfalfa
Bermudagrass
Cattail
Dandelion
Fescue
Horsenettle
Johnsongrass
Knapweed
Lantana
Milkweed
Nutsedge; purple, yellow
Smartweed, swamp
Starthistle, yellow
Waterhyacinth
Waterlettuce

WOODY BRUSH AND TREES:

Alder
Aspen, quaking
Birch
Dogwood
Hawthorn
Hazel
Kudzu
Poison ivy
Trumpet creeper
Willow

USE SUMMARY

RATES

Annual weeds: Apply to actively growing annual grasses and broadleaf weeds. For broadcast applications, use 1-1/2 pints of Aqua Neat® per acre plus 2 or more quarts of a nonionic surfactant per 100 gallons of spray solution if weeds are less than 6 inches tall. If weeds are more than 6 inches tall, use 2-1/2 pints per acre plus 2 or more quarts of an approved nonionic surfactant per 100 gallons of spray solution.

For hand-held, high-volume applications, use a 3/4 percent solution of this product in water plus 2 or more quarts of a nonionic surfactant per 100 gallons of spray solution and apply to foliage of vegetation to be controlled.

Perennial weeds: Apply to actively growing weeds. Apply 3 to 7-1/2 pints per acre as a broadcast spray or as a 3/4 to 1-1/2 percent solution with hand-held equipment.

Woody brush and trees: Apply to actively growing trees and shrubs. Apply 3 to 7-1/2 pints per acre as a broadcast spray or as a 3/4 to 1-1/2 percent solution with hand-held equipment.

See label for complete directions for use.



www.nufarm.com/us

For specific application rates, directions, mixing instructions and precautions, read the product label. Please visit www.nufarm.com/us to download a full label.

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