


### Safety Data Sheet

| NFPA HAZARD RATING |          |   |              | U.S. TRANSPORT SUMMARY |                                                                                                            |
|--------------------|----------|---|--------------|------------------------|------------------------------------------------------------------------------------------------------------|
| 0                  | Least    |   |              |                        | Not regulated as a hazardous material for ground transport.<br>(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>                                                                                 | Top Surf®                                                                                                                                                                       |
| <b>EPA Registration #:</b>                                                                           | Exempt                                                                                                                                                                          |
| <b>Product ID/Unity #:</b>                                                                           | 10001393, 10051723, 10128035, 66175415                                                                                                                                          |
| <b>Common Name:</b>                                                                                  | Agricultural adjuvant                                                                                                                                                           |
| <b>Chemical Description:</b>                                                                         | Nonionic surfactant                                                                                                                                                             |
| <b>Recommended Uses:</b>                                                                             | Agricultural Adjuvant. See product label for complete list of recommended uses and use sites.                                                                                   |
| <b>Restrictions for Use:</b>                                                                         | See product label for information regarding restrictions on the use of this product.                                                                                            |
| <b>Manufactured For:</b><br>WINFIELD SOLUTIONS, LLC<br>P. O. Box 64589<br>St. Paul, MN 55164-0589    | <b>MEDICAL EMERGENCY TELEPHONE NUMBER:</b> 1-877-424-7452 (24hrs)<br><br><b>Non-Emergency Business Inquiries:</b> 1-855-494-6343<br>Mon – Fri 8am – 5pm (Central Standard Time) |
| FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:<br>CHEMTREC 1-800-424-9300 (24 hours) |                                                                                                                                                                                 |

| SECTION 2: HAZARDS IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                             |
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| <b>EMERGENCY OVERVIEW:</b> Clear, gold to amber liquid with an alcohol odor. Causes eye irritation. Harmful if swallowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                             |
| <b>POTENTIAL HEALTH EFFECTS:</b><br><b>Eyes:</b> May cause moderate but temporary irritation to the eyes.<br><b>Skin:</b> Prolonged or repeated exposure may cause mild skin irritation.<br><b>Inhalation:</b> May be harmful if inhaled.<br><b>Ingestion:</b> May be harmful if swallowed.<br><b>Preexisting Conditions:</b> Pre-existing respiratory conditions may be aggravated by exposure to mists.<br><b>Chronic Health Effects:</b> None known.                                                                                                                                                                                                               |                                                                                             |
| <b>Carcinogenicity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NTP: Not listed                      IARC: Not listed                      OSHA: Not listed |
| <b>OSHA HCS 2012 CLASSIFICATION:</b> Eye Irritant Category 2B; Acute Oral Toxicity Category 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                             |
| <b>SIGNAL WORD:</b> WARNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |
| <b>HAZARD STATEMENTS:</b><br>Causes eye irritation.<br>Harmful if swallowed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |
| <b>Percent of product with unknown toxicity:</b> 0%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                             |
| <b>PRECAUTIONARY STATEMENTS:</b><br><b>Prevention:</b> Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.<br><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. If eye irritation persists get medical attention. <b>If Swallowed:</b> Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. Rinse mouth.<br><b>Storage:</b> See section 7 for information on product storage.<br><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 alcohol ethoxylate and alkylphenol ethoxylate                                                                           | 80.0%  | 68002-97-1 & 9016-45-9 |
|                                                                                                                                              |        |                        |
| *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 |                                                                                                                                                                                                                    |
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| Inhalation:                   | Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention or call a poison control center for 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. 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 if irritation persists. |
| Skin:                         | Remove contaminated clothing and wash before re-using them. Wash exposed skin with soap and water. Seek medical attention if skin becomes irritated.                                                               |

| SECTION 5: FIRE FIGHTING MEASURES                                                                                                                                                                                                                                    |  |
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| <b>Suitable Extinguishing Media:</b> Use water spray, alcohol foam, dry chemical, or carbon dioxide (CO2).                                                                                                                                                           |  |
| <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> Toxic gases such as carbon monoxide and other asphyxiates may form.                                                                                                                                                            |  |
| <b>Unusual Fire and Explosion Hazards:</b> Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury.                                                                                                                  |  |

| SECTION 6: ACCIDENTAL RELEASE MEASURES                                                                                                                                                                                                                                           |  |
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| <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> Keep spilled product from entering nearby sewers or waterways.                                                                                                                                                                                 |  |
| <b>Methods for Containment:</b> Contain spilled liquid by diking area with sand or earth.                                                                                                                                                                                        |  |
| <b>Methods for Clean-up:</b> 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. |  |
| <b>Other Information:</b> No other information available.                                                                                                                                                                                                                        |  |

| SECTION 7: HANDLING AND STORAGE                                                                                                                                                                                                                                                      |  |
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| <b>Handling:</b> 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. |  |
| <b>Storage:</b> Store in cool, dry area away from children, feed and food products in an area away from incompatible substances. Protect packaging from physical damage. Protect from exposure to fire. Maintain product between 40°F and 120°F.                                     |  |
| <b>Minimum Storage Temperature:</b> 40°F                                                                                                                                                                                                                                             |  |
| <b>Other Precautions:</b> 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 |
| No components have exposure guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |           |           |
| <b>Respiratory Protection:</b> Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an OSHA/NIOSH-approved respirator.                                                                                                                                                                                                                                                                                            |          |           |           |
| <b>Engineering Controls:</b> <b>Local Exhaust:</b> Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.                                                                                                                                                                                                                                                                   |          |           |           |
| <b>Protective Gloves:</b> Wear chemically protective gloves to prevent repeated exposure to the skin.<br><b>Eye Protection:</b> To avoid contact with eyes, wear chemical goggles or shielded safety glasses. Contact lenses are not eye protective devices. An emergency eyewash or water supply should be readily accessible to the work area.<br><b>Other Protective Clothing or Equipment:</b> Wear long-sleeve shirt, long pants and shoes plus socks to prevent prolonged or repeated skin contact. |          |           |           |
| <b>Work/Hygienic Practices:</b> 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> | 1.06 (typical)         |
| <b>Vapor Pressure (mm Hg):</b>              | Not determined                                   | <b>Density (lbs/gallon):</b>                | 8.85 lbs/gal (typical) |
| <b>Vapor Density (Air=1):</b>               | Not determined                                   | <b>Melting Point/Freezing Point:</b>        | <40°F                  |
| <b>Solubility in Water (wt %):</b>          | Soluble                                          | <b>Boiling Point/Range:</b>                 | 212°F                  |
| <b>Viscosity:</b>                           | Not determined                                   | <b>pH (5% Solution):</b>                    | 4.0 – 7.0              |
| <b>Appearance and odor:</b>                 | Clear, gold to amber liquid with an alcohol odor | <b>Flash Point:</b>                         | 175°F - 180°F          |

| SECTION 10: STABILITY AND REACTIVITY                                                                                 |  |
|----------------------------------------------------------------------------------------------------------------------|--|
| <b>Reactivity:</b> None known.                                                                                       |  |
| <b>Chemical Stability:</b> Product is stable at ambient temperature and pressure, under normal storage and handling. |  |
| <b>Possibility of Hazardous Reactions:</b> None known.                                                               |  |
| <b>Conditions to Avoid:</b> Avoid heat and open flame. Isolate from strong oxidizing agents                          |  |
| <b>Incompatible Materials:</b> Strong oxidizing agents                                                               |  |
| <b>Hazardous Decomposition Products:</b> Toxic gases such as carbon monoxide and other asphyxiates may form.         |  |

| SECTION 11: TOXICOLOGICAL INFORMATION  |                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| <b>ACUTE TOXICITY</b>                  |                                                                                                             |
| <b>Eye Effects:</b>                    | Causes moderate but temporary irritation                                                                    |
| <b>Skin Effects:</b>                   | LD50 > 2000 mg/kg (rabbit); slightly irritating                                                             |
| <b>Acute Inhalation Effects:</b>       | Not determined                                                                                              |
| <b>Acute Oral Effects:</b>             | LD50 >1300 mg/kg (rat); Swallowing can cause severe abdominal irritation, nausea, vomiting, and diarrhea    |
| <b>Specific Target Organ Toxicity:</b> | None known.                                                                                                 |
| <b>CHRONIC TOXICITY</b>                |                                                                                                             |
| <b>Chronic Effects:</b>                | Not anticipated to have chronic health effects due to exposure.                                             |
| <b>Carcinogenicity:</b>                | None of the components of this product are known or suspected of having carcinogenic effects.               |
| <b>Mutagenicity:</b>                   | None of the components of this product are known or suspected of having mutagenic effects.                  |
| <b>Teratogenicity:</b>                 | None of the components of this product are known or suspected of having teratogenic effects.                |
| <b>Reproductive Toxicity:</b>          | None of the components of this product are known or suspected of having effects on the reproductive system. |

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**POTENTIAL HEALTH EFFECTS:**

**Eyes:** May cause moderate but temporary irritation to the eyes.  
**Skin:** Prolonged or repeated exposure may cause mild skin irritation.  
**Inhalation:** May be harmful if inhaled.  
**Ingestion:** May be harmful if swallowed.

**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:** None known

**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)** Not regulated by the U.S. Department of Transportation as a hazardous material.  
**IMDG:**  
**(Sea)** Not regulated as a hazardous substance for shipment by sea.  
**IATA:**  
**(Air)** Not regulated as a hazardous substance for shipment by air.  
**TDG:**  
**(Canada)** Not regulated for transport as a hazardous substance.

**SECTION 15: REGULATORY INFORMATION**

**TSCA Inventory:** All components are listed on the TSCA inventory or are exempt from listing.  
**SARA Title III Information:**  
**Section 302 - Extremely hazardous substances:** None listed  
**Section 311/312 - Hazard Categories:** None listed  
**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:  
 None listed  
**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 contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

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**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

| Chemical Name | CAS # | State(s) |
|---------------|-------|----------|
| None listed   |       |          |

**Canadian Domestic Substances List:** All components are listed.

**WHMIS Classification:** Not classified

**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**

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