


| NFPA HAZARD RATING | | | | U.S. TRANSPORT SUMMARY | |
|--------------------|----------|---|--------------|------------------------|--|
| 0 | Least | | | | |
| 1 | Slight | 2 | Health | | Not regulated as a hazardous material for ground transport. (See Section 14 for additional information) |
| 2 | Moderate | 0 | Flammability | | |
| 3 | High | 0 | Reactivity | | |
| 4 | Severe | | | | |

| SECTION 1: IDENTIFICATION | |
|---|---|
| PCP: | 31817 |
| Product Name: | HiActivate |
| Common Name: | Agricultural Adjuvant |
| Chemical Description: | Nonionic surfactant |
| Recommended Uses: | Agricultural Adjuvant. See product label for complete list of recommended uses and use sites. |
| Restrictions for Use: | See product label for information regarding restrictions on the use of this product. |
| Initial Supplier: Winfield United Canada, ULC 101-302 Wellman Lane Saskatoon, Saskatchewan S7T-0J1, CANADA Tel: 1-888-975-4769 | Manufactured For: WINFIELD SOLUTIONS, LLC P.O. Box 64589 St. Paul, MN 55164-0589, UNITED STATES |
| FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls. | |

| SECTION 2: HAZARDS IDENTIFICATION | |
|--|---|
| EMERGENCY OVERVIEW: Clear, amber liquid with a fatty or alcohol odor. Causes eye and skin irritation. May be harmful if swallowed. May cause respiratory irritation. | |
| POTENTIAL HEALTH EFFECTS: Eyes: Causes mild to moderate eye irritation including redness, blurred vision tearing and mild discomfort. Skin: Skin contact causes irritation, defatting and dermatitis. Prolonged exposure may cause more severe irritation such as local redness and swelling. Inhalation: May irritate the respiratory tract and cause discomfort to nose and throat. Ingestion: Swallowing can result in severe abdominal irritation, nausea, vomiting and diarrhea. Preexisting Conditions: Pre-existing respiratory conditions may be aggravated by exposure to mists. Chronic Health Effects: None known. | |
| Carcinogenicity | NTP: Not listed IARC: Not listed OSHA: Not listed |
| OSHA HCS 2012 CLASSIFICATION: Flammable Liquids Category 4; Eye Irritation Category 2B; Skin Irritation Category 3; Acute Oral Toxicity Category 4; Acute Inhalation Toxicity Category 5; Acute Dermal Toxicity Category 5 | |
| SIGNAL WORD: WARNING | |
| HAZARD STATEMENTS: Combustible Liquid. Causes eye irritation. Causes mild skin irritation. Harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled. |  |
| Percent of product with unknown toxicity: 0% | |
| <i>Continued on next page</i> | |

PRECAUTIONARY STATEMENTS:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands, face and other affected areas thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection. Do not eat, drink or smoke when using this product. Avoid breathing fumes, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

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 ON SKIN:** Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. **IF SWALLOWED:** Immediately call a poison control center (1-877-424-7452) or doctor for treatment advice. Rinse mouth. **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.

Storage: Store in a well-ventilated, cool place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/container in accordance with Federal, provincial and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | % (wt) | CAS Reg. # |
|---|---------------|-------------------|
| Proprietary blend of Surfactants and Coupling Agents | 100.0% | * |
| *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

Inhalation: 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.

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 irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide (CO₂). Use water spray/fog for cooling containers and firefighters.

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. Notify proper authorities if liquid material enters the sewer or public waters.

Hazardous Combustion Products: Incomplete combustion may yield carbon oxides.

Unusual Fire and Explosion Hazards: None known

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: Keep material from entering storm sewers and ditches which lead to waterways.

Methods for Containment: Contain spilled liquid by diking area with sand or earth.

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.

Other Information: No other information available.

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 area away from children, feed and food products in an area away from incompatible substances such as strong oxidants. Ensure storage location is secured and well-ventilated. Protect packaging from physical damage. Protect from exposure to fire. Protect from freezing. Maintain product between 32°F and 120°F. Storage at room temperature will help maintain product integrity.

Minimum Storage Temperature: 33°F

Other Precautions: Consult Federal, provincial 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. | | | |

Respiratory Protection: For most conditions, no respiratory protection should be needed. However, use a NIOSH approved general particulate respirator as necessary.

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 chemically protective gloves to prevent exposure to the skin.

Eye Protection: Wear chemical goggles or safety glasses and full face shield. Contact lenses are not eye protective 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 prolonged or repeated 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): | 1.01 – 1.195 |
| Vapor Pressure (mm Hg): | Not determined | Density (lbs/gallon): | 8.43 – 9.97 lbs/gal |
| Vapor Density (Air=1): | Not determined | Melting Point/Freezing Point: | Not determined |
| Solubility in Water (wt %): | Soluble | Boiling Point/Range: | Not determined |
| Viscosity: | Not determined | pH (5% Solution): | 4.0 – 7.0 |
| Appearance and odor: | Clear, amber liquid with a fatty or alcohol odor. | Flash Point: | >93.3°C (>200°F) |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known.

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

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Incompatible materials, heat and open flame.

Incompatible Materials: Strong oxidizing materials such as hydrogen peroxide, bromine, and chromic acid which may cause fire and explosion hazard.

Hazardous Decomposition Products: Combustion may yield carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Eye Effects: May cause irritation to eyes including redness, tearing, blurred vision and mild discomfort. Prolonged contact causes excess redness, swelling, and chemical burns.

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| | |
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| Skin Effects: | May cause irritation to skin. Absorption through skin increases exposure. Prolonged exposure may cause more severe irritation such as local redness and swelling. |
| Acute Inhalation Effects: | LC50 is not determined. May irritate the respiratory tract and cause nasal discomfort, chest pain, and coughing. |
| Acute Oral Effects: | LD50 is >1,300 mg/kg. Swallowing can cause severe abdominal irritation, nausea, vomiting and diarrhea. |
| Specific Target Organ Toxicity: | None known. |
| <u>CHRONIC TOXICITY</u> | |
| Chronic Effects: | Not anticipated to have chronic health effects due to exposure. |
| Carcinogenicity: | None of the components of this product are known or suspected of having carcinogenic effects. |
| Mutagenicity: | None of the components of this product are known or suspected of having mutagenic effects. |
| Teratogenicity: | None of the components of this product are known or suspected of having teratogenic effects. |
| Reproductive Toxicity: | None of the components of this product are known or suspected of having effects on the reproductive system. |
| POTENTIAL HEALTH EFFECTS: | |
| Eyes: | Causes mild to moderate eye irritation including redness, blurred vision tearing and mild discomfort. |
| Skin: | Skin contact causes irritation, defatting and dermatitis. Prolonged exposure may cause more severe irritation such as local redness and swelling. |
| Inhalation: | May irritate the respiratory tract and cause discomfort to nose and throat. |
| Ingestion: | Swallowing can result in severe abdominal irritation, nausea, vomiting and diarrhea. |

| SECTION 12: ECOLOGICAL INFORMATION | |
|--|-----------------------|
| ENVIRONMENTAL SUMMARY: Do not apply directly to water. Do not contaminate water when cleaning equipment or disposing of equipment wash water. | |
| ECOTOXICITY DATA: | |
| Fish Acute and Prolonged Toxicity: | LC50 >1 mg/L |
| Aquatic Invertebrate Acute Toxicity: | EC50 >1 mg/L |
| Aquatic Plant Toxicity: | LC50 (Algae) > 1 mg/L |
| 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 | |
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| 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 | |
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| DOT: (Ground) | This product is not regulated by the U.S. Department of Transportation as a hazardous substance for ground shipment. |
| IMDG: (Sea) | This product is not regulated by the IMDG as a hazardous material for shipment by sea. |
| IATA: (Air) | This product is not regulated by the IATA as a hazardous material for shipment by air. |
| TDG: (Canada) | This product is not regulated by the TDG as a hazardous material for shipment. |

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: 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:

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

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

No components listed

Canadian Domestic Substances List: Not listed

WHMIS Classification:

Other Information: Trace ingredients (if any) are present in <1% concentration (<0.1% for potential carcinogens, reproductive toxins, respiratory tract mutagens, and sensitizers). None of the trace ingredients contribute a significant additional hazard at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents, and Canadian Hazardous Material Identification System Standard (CPR 4).

SECTION 16: OTHER

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