SAFETY DATA SHEET

DATE REVISED: 4/5/16
SDS NUMBER: 10339

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HIACTIVATE NON-IONIC LIQUID SPREADER/ACTIVATOR
DESCRIPTION: Agricultural Adjuvant

MANUFACTURED FOR: Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164

EMERGENCY CONTACT: In the event of chemical emergencies involving a spill, leak, fire exposure, or accident involving chemicals – call **CHEMTREC (800) 424-9300**

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Health:

Acute toxicity:

Oral (category 4) – harmful if swallowed
Dermal (category 5) –may be harmful in contact with skin
Inhalation (category 4) –harmful if inhaled

Skin irritation (category 3) – causes mild skin irritation

Serious eye damage / eye irritation (category 2a) – causes serious eye irritation

Environmental

Acute aquatic toxicity (category 2) – toxic to aquatic life

GHS Label:

Signal Word: WARNING

Precautionary Statements:

General:

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Avoid breathing fumes, mist, vapors, or spray.

Wash hands, face, and other affected areas thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Use only outdoors or in a well ventilated area.

Wear protective gloves / protective clothing / eye protection / face protection.

Avoid release to the environment.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor / physician if you feel unwell. Rinse mouth.

IF ON SKIN: Call a POISON CENTER or doctor / physician if you feel unwell. Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water.

If skin irritation occurs: get medical advice or attention.

IF INHALED: Call a POISON CENTER / doctor / seek medical attention if you feel unwell. Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

If eye irritation persists: Get medical advice / attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Percentage
Proprietary Blend of Surfactants and Formulation Aids	N/A	100%

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN: Remove contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice if irritation persists.

INHALED: After vapor exposure, remove to fresh air. If symptoms persist seek medical attention.

INGESTION: Call a poison control center or doctor for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical, or carbon dioxide (CO_2)

FIRE FIGHTING PROCEDURES: Fight fire from a safe distance and protected location. Fight fire upwind to avoid hazardous vapors and decomposing products. Heat may build pressure and rupture closed containers, spreading fire and increasing the risk of injury. Use water spray/fog for cooling containers and firefighters. Minimize run off if possible. Notify proper authorities if liquid material enters the sewer or pubic waters.

FIRE FIGHTING EQUIPMENT: As with any fire, wear self-contained breathing apparatus pressure demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. In case of a spill, clear the affected area, protect people, and respond with trained personnel.

PERSONAL PROTECTIVE EQUIPMENT: For incidental releases use impermeable gloves, goggles, face shield, and appropriate body protection. In the event of a large release, use impermeable gloves, chemically resistant suit and boots, and hard hat. Self-Contained Breathing Apparatus or respirator may be required where engineering controls are not adequate or conditions for potential exposure exist. When respirators are required, select NIOSH/MSHA approved based on actual or potential airborne concentrations in accordance with the latest OSHA and/or ANSI recommendations.

ENVIRONMENTAL PRECAUTIONS: Stop spill at source. Construct temporary dikes of dirt, sand, or appropriate readily available material to prevent spreading of material. Close cap or valves and/or block or plug hole in leaking container and transfer to another container. Keep from entering storm sewers and ditches which lead to waterways, and if necessary, call the local fire or police department for immediate assistance.

CONTAINMENT AND CLEANUP: Ventilate area before attempting cleanup. Absorb spilled liquid with polypads or other absorbent materials. Clean up with non-combustible absorbent (such as sand or soil). Shovel up and place all spill residue in suitable containers. Dispose of at an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.

7. HANDLING AND STORAGE

HANDLING: Follow all SDS / label precautions when using this product. Do not reuse the container.

STORAGE: Store in a cool dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash station, safety shower, and mechanical ventilation.

Ventilation System: A system of local and / or general exhaust may be necessary to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved organic vapor respirator as necessary.

Airborne Exposure Limits:

ACGIH TLV	10 mg/m^3
OSHA PEL - TWA	5 mg/m^3 (mist - respirable fraction)
OSHA PEL - TWA	15 mg/m^3 (mist - total)

EYE PROTECTION: Wear OSHA standard chemical splash goggles or safety glasses.

SKIN PROTECTION: Clean body-covering clothing should be worn. Use impervious gloves such as neoprene and rubber boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light Yellow, Viscous Liquid
Odor	Slight Vegetable Oil
pH (2.0 % solution)	6 – 8
Freeze / Melting Point	Not Determined
Boiling Point / Range	Not Determined
Specific Gravity (20°C)	0.97 – 1.07

Flash Point	> 93°C
Color (Gardner)	Not Determined
Solubility in Water	Soluble
Viscosity	Not Determined
Odor Threshold	Not Determined
Evaporation Rate	Not Determined
Upper / Lower Flammability Limits	Not Determined
Vapor Pressure	Not Determined
Vapor Density	Not Determined
Partition Coefficient	Not Determined
Auto-Ignition Point	Not Determined
Decomposition Temperature	Not Determined

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable at ambient temperatures and atmospheric pressure.

CONDITIONS TO AVOID: Avoid strong acids, bases, and oxidizing agents.

HAZARDOUS DECOMPOSITION: Combustion may yield carbon oxides and other hazardous gases.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE: based on components

Oral LD_{50}	Rat	> 1,800 mg/kg
Dermal LD_{50}	Rabbit	> 2,000 mg/kg
Inhalation LD_{50}	Rat	> 4 mg/L

Eye – may cause irritation to eyes including redness, tearing, blurred vision and discomfort. Prolonged contact causes excess redness, swelling, and chemical burns.

Skin – brief contact is non-irritating. Prolonged exposure may cause discomfort and local redness. Absorption through skin increases exposure.

Inhalation – may irritate the respiratory tract causing nasal discomfort, chest pain, and coughing.

Ingestion – Swallowing can cause severe abdominal irritation, nausea, vomiting and diarrhea. Do not taste or swallow product.

CHRONIC: No Information Available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not determined. Does contain components that may be toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: For disposal of Aqueous Solutions, aerobic biological wastewater treatment systems are effective in treating plant conditions. Consultation with local treatment plant staff is recommended (and may be required by law) before disposal. For disposal of unused product, incinerate in a furnace where permitted under Federal, State, and local regulations.

PRODUCT DISPOSAL: Disposal of contents / container must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules).

EMPTY CONTAINER: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORTATION INFORMATION

SHIPPING DESCRIPTION:
DOT: Non Bulk – Not Regulated for ground transportation by US DOT
TDG (Canada): Non Bulk-Not Regulated.

15. REGULATORY INFORMATION

SARA TITLE III (Superfund Amendments and Reauthorization Act)
311 / 312 Hazard Categories – Acute and Chronic Health Hazards
313 Reportable Ingredients

Component	CAS #	Amount
Isopropanol	67-63-0	≤ 1.0%
Ethylene Oxide	75-21-8	≤ 0.05%

302 / 304 Emergency Planning – None

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65) – This product contains the following chemicals known to the state of California to cause cancer or reproductive toxicity

Component	CAS #	Amount
Ethylene Oxide	75-21-8	≤ 0.05%

TRACE ELEMENTS: 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), US State equivalents, and Canadian Hazardous Material Identification System Standard (CPR 4).

16. OTHER INFORMATION

REASON FOR ISSUE: Initial

APPROVAL BY: Mason M. Neal – Technical Services Manager

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