




### Safety Data Sheet

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				Regulated in bulk packaging (119 gallons); see Section 14 for additional information.
1	Slight	2	Health		
2	Moderate	2	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION			
<b>Product Name:</b> OPTIFY™ L27			
<b>Chemical Description:</b> Acidifying Water Conditioner and Surfactant			
<b>Recommended Uses:</b> Agricultural Adjuvant			
<b>Restrictions for Use:</b> See product label for use restrictions			
Manufactured For: <b>WINFIELD SOLUTIONS, LLC</b> P. O. Box 64589 St. Paul, MN 55164-0589		<b>MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)</b>  <b>Non-Emergency Business Inquiries: 1-855-494-6343</b> Mon – Fri 8am – 5pm (Central Standard Time)	
<b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)</b>			
SECTION 2: HAZARDS IDENTIFICATION			
<b>EMERGENCY OVERVIEW:</b> Amber colored liquid with slightly pungent odor. Flammable liquid. Causes moderate but temporary eye irritation.			
<b>POTENTIAL HEALTH EFFECTS:</b>			
<b>Eyes:</b> Causes moderate but temporary eye irritation.			
<b>Skin:</b> Not anticipated to cause skin irritation with short-term exposure. Long term exposure may result in redness.			
<b>Inhalation:</b> May cause irritation of the upper respiratory tract and lungs.			
<b>Ingestion:</b> May cause irritation of the digestive tract.			
<b>Preexisting Conditions:</b> Preexisting respiratory conditions may be aggravated by exposure to mist.			
<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 Irritation Category 2B; Flammable Liquid Category 3; Skin Sensitization Category 1B			
<b>SIGNAL WORD:</b> WARNING			
<b>HAZARD STATEMENTS:</b>		 	
Causes eye irritation.			
Flammable liquid and vapor.			
May cause an allergic skin reaction.			
<b>Percent of product with unknown toxicity:</b> 0%			
<b>PRECAUTIONARY STATEMENTS:</b>			
<b>Prevention:</b>	Wash hands thoroughly after handling. Keep away from heat, sparks, open flames, hot surfaces. - No Smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, eye protection and face protection (See Section 8). Do not breathe mist or spray. Contaminated work clothing must not be allowed out of the workplace.		
<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 on skin (or hair):</b> Take off immediately all contaminated clothing. Rinse skin with water/shower. <b>In case of fire:</b> Use alcohol-resistant foam, universal		

	foam, water spray or water fog to extinguish. <b>If skin irritation or rash occurs:</b> Get medical attention. Wash contaminated clothing before reuse.
<b>Storage:</b>	Store in a well-ventilated place. Keep cool.
<b>Disposal</b>	Dispose of contents/container in accordance with Federal, state and local regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredient</b>	<b>% (wt)</b>	<b>CAS Reg. #</b>
Ammonium sulfate	13.0 – 17.0%	7783-20-2
Ethyl lactate	4.0 – 6.0%	97-64-3
*Ingredients not specifically listed are non-hazardous and 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.
<b>Ingestion:</b>	Seek medical attention or call a poison control center 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> Alcohol-resistant foam, universal foam, 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> Toxic gases such as ammonia, sulfur oxides and carbon oxides may be formed in a fire situation.
<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. Do not use combustible material such as sawdust. Scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container. Eliminate all ignition sources.
<b>Other Information:</b> None known

### SECTION 7: HANDLING AND STORAGE

<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 areas in the original container away from children, feed and food products and sources of heat or flame. Protect package from physical damage. Take measures to prevent the buildup of electrostatic charge.
<b>Minimum Storage Temperature:</b> N/A
<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 established limits			

**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 organic vapors.

**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/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**

<b>Physical State:</b>	Liquid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.22 (typical)
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Density (lbs/gallon):</b>	10.18 lbs/gallon (typical)
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	< 32°F
<b>Solubility in Water (wt %):</b>	Miscible	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>pH:</b>	2.2 (typical)
<b>Appearance and odor:</b>	Amber color with slightly pungent odor	<b>Flash Point:</b>	134.7°F (57°C)

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Combustible liquid

**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, acids and bases.

**Hazardous Decomposition Products:** Ammonia, sulfur oxides, carbon oxides

**SECTION 11: TOXICOLOGICAL INFORMATION****ACUTE TOXICITY**

**Eye Effects:** Caused moderate eye irritation clearing within 72 hours of occurrence (rabbit).

**Skin Effects:** LD50 > 5,050 mg/kg (albino rabbits). Slightly irritating, based upon animal testing, with very mild redness and swelling clearing within 72 hours.

**Acute Inhalation Effects:** LC50 > 2.22 mg/L (albino rats); No mortality was observed during the study and none of the components are toxic by inhalation.

**Acute Oral Effects:** LD50 > 5,000 mg/kg (albino rats)

**Specific Target Organ Toxicity:** None known

**CHRONIC TOXICITY**

**Chronic Effects:** Repeated exposure to concentrated product is anticipated to be a skin sensitizer based upon animal testing.

**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.

**Skin:** Not anticipated to cause skin irritation with short-term exposure. Long term exposure may result in redness.

**Inhalation:** May cause irritation of the upper respiratory tract and lungs.

**Ingestion:** May cause irritation of the digestive tract.

**SECTION 12: ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** This product is not anticipated to be toxic to aquatic organisms.

**ECOTOXICITY DATA:**

**Fish Acute and Prolonged Toxicity:** *Pimephales promelas* (Fathead Minnow) – NOEC = 100 mg/L; EC50 >100 mg/L  
*Oncorhynchus mykiss* (Rainbow Trout) – NOEC = 100 mg/L; EC50 >100 mg/L

**Aquatic Invertebrate Acute Toxicity:** *Daphnia magna* – NOEC = 100 mg/L; EC50 >100 mg/L

**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. If product is disposed of as purchased – D001.

**SECTION 14: TRANSPORT INFORMATION**

**DOT:** This product is not regulated by the U.S. Department of Transportation in quantities less than 119 gallons.  
**(Ground)** For quantities of 119 gallons or greater:  
 UN1993, Flammable liquid, n.o.s. (ethyl lactate), 3, PGIII

**IMDG:** For all sizes: UN1993, Flammable liquid, n.o.s. (ethyl lactate) 3, PG III  
**(Sea)**

**IATA:** For all sizes: UN1993, Flammable liquid, n.o.s. (ethyl lactate) 3, PG III  
**(Air)**

**TDG:** For all sizes: UN1993, Flammable liquid, n.o.s. (ethyl lactate) 3, PG III  
**(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** None listed  
**substances:**

**Section 311/312 - Hazard** Immediate (Acute), Fire

**Categories:**

**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 does not contain any ingredients 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)
Ammonium sulfate	7783-20-2	MA, NJ, PA, RI
Ethyl lactate	97-64-3	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.**SECTION 16: OTHER**

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