

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

<u>Section 1—Chemical Product and Company Identification</u>	
Product Name:	LEVEL 7™
Common Name:	Agricultural adjuvant
Chemical Description:	Water conditioner, surfactant
Manufacturer's Name:	Medical Emergency Telephone Number:
WINFIELD SOLUTIONS, LLC	1-877-424-7452
P. O. Box 64589	MSDS revision 2 authored 1/11/2010
St. Paul, MN 55164-0589	Supersedes revision 1 dated 9/19/2007

<u>Section 2—Hazards Identification</u>
Emergency Overview: Combustible liquid, irritant. Amber, slightly pungent liquid. CAUTION: Keep out of reach of children.
Route(s) of Entry: Inhalation, eyes, skin, and ingestion.
Health Hazards (Acute and Chronic): Inhalation: May be harmful if inhaled. Vapors and mist causes respiratory tract irritation. Eyes: Causes eye irritation, experienced as discomfort or pain, and seen as excess redness and swelling of the eye, and possible injury to the cornea. Skin: Prolonged contact, as with clothing wetting with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort. Ingestion: May cause abdominal discomfort, nausea and diarrhea. Aspiration may occur during swallowing or vomiting, resulting in lung damage.
Medical Conditions Generally Aggravated by Exposure: Because of its defatting properties, prolonged and repeated skin contact may aggravate an existing dermatitis (skin condition).

<u>Section 3—Composition Information on Ingredients</u>		
Ingredient	% (wt)	CAS reg. #
Ammonium Sulfate	15.0%	7783-20-2
High Fructose Corn Syrup	25.0%	8029-43-4
Ethyl Lactate	5.0%	97-64-3
Formulation Aids	20.5%	N/A (Mixture)

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

<u>Section 4—First Aid Measures</u>	
Inhalation:	Remove person to fresh air. If not breathing or in respiratory distress, clear person's airway and start artificial respiration. With a physician's advice, give supplemental oxygen using a bag-valve mask or manually triggered oxygen supply.
Ingestion:	Do not induce vomiting. Seek medical attention or call a poison control center immediately.
Eyes:	Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation persists. Consult a physician.
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. Consult a physician.

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

Section 5—Fire and Explosion Hazard Data

Extinguishing Media: For small fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply very large quantities of water as a mist or spray from as far as possible. Solid streams of water may be ineffective. Water or foam may cause frothing. Cool all affected containers with large quantities of water.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full bunker gear. Approach fire from upwind.

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: None known

Section 6—Accidental Release Measures

Small Spills: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form combustible concentrations.

Large Spills: See measures for small spills. Contain spill if possible. Do not let product enter sewers and waterways. Vapors can accumulate in low areas.

Containment: Do not release into sewers or waterways. Contain spillage, and then collect with non-combustible absorbent material and place in suitable disposal container according to local, state and federal regulations.

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 and ignition. Avoid inhalation of vapor or mist. Immediately clean up spills that occur during handling or storage. Protect from freezing. Keep containers closed when not in use. Do not store in aluminum or metal vessels. Take measures to prevent the buildup of electrostatic charge.

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

Section 8—Control Measures/Personal Protection

Respiratory Protection: NIOSH approved pesticide respirator with organic vapor/acid/gas cartridge and pesticide prefilter in lieu of or as backup to engineering controls.

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 or 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):	1.2197
Vapor Pressure (mm Hg):	Not established	Freezing Point:	Not established
Vapor Density (Air=1):	Not established	Boiling Point:	Not established
Solubility in Water (wt %):	Miscible	pH (1% solution in distilled water):	2.92
Appearance and odor:	Amber color with slightly pungent odor	Flash Point:	130F (54C) / Closed Cup

Section 10—Reactivity Data

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

Chemical Incompatibilities: Strong oxidizing agents, acids and bases.

Conditions to Avoid: Avoid high temperatures. Avoid heat, flame, and sparks.

Hazardous Decomposition Products: Ammonia, sulfur oxides, CO

Hazardous Polymerization: Will not occur.

Section 11—Toxicological Information

Eye Effects: May cause irritation
Skin Effects: May cause irritation. May be harmful if absorbed through skin.
Acute Inhalation Effects: LC50 > 2.22 mg/L in rats
Acute Oral Effects: LD50 > 5000 mg/kg in rats
Chronic Effects: Not determined
Mutagenicity: Not determined
Teratogenicity: Not determined

Carcinogenicity NTP: Not listed IARC: Not listed OSHA: Not listed

Section 12—Ecological Information

Soil Absorption/Mobility: Mobile in soil profile.
Toxicity to aquatic invertebrates: LC50 = 16.50 g/L for Daphnia magna (water flea) in 48 hours.
Toxicity to fish: LC50 = 245 mg/L for Oncorhynchus mykiss (rainbow trout) in 96 hours.

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. Follow applicable Federal, state and local regulations.
RCRA characteristics: If discarded in its present form, this product has a RCRA waste classification of D001.

Section 14—Transport Information

Less than 119 Gallons – Not regulated by DOT

119 Gallons or Greater:

Proper shipping name - Ethyl lactate
Hazard Class – Combustible Liquid
UN/NA Number – NA1192
Packing Group – III

IATA/IMO (All Sizes):

Proper shipping name - Ethyl lactate
Hazard Class – 3
UN/NA Number – UN1192
Packing Group – III

Section 15—Regulatory Information

OSHA hazards: Combustible liquid, irritant.

TSCA inventory: This product's components are listed on, or are exempt from the TSCA inventory.

SARA, Title III, Section 302: No components are subject to reporting.

SARA Title III, Section 311/312:	Immediate: Yes	Delayed: No
Sudden Release of Pressure:	No Fire: Yes	Reactive: No

SARA Title III, Section 313: Contains ammonium sulfate (CAS 7783-20-2)

CERCLA: None listed.

DSL Status (Canada): This product contains ethyl lactate (CAS 97-64-3 or 687-47-8)

States Right-to-know Regulations. Chemical, states: 1-Decanol, PA. 1-Octanol, PA. Benzenesulfonic acid dodecyl-compound with 2',2',2'-nitrotris(ethanol), MA, NJ, PA. Fructose, PA, NJ. Ethyl lactate, PA, NJ. Ammonium sulfate, MA, PA, NJ.

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Section 16—Other

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