


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	1	Health		
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information.

SECTION 1: IDENTIFICATION	
Product Name:	Humitech® 21
EPA Registration #:	Exempt
Product ID/Unity #:	10133593, 1415206
Common Name:	Humic acid and fermented grain by-products
Chemical Description:	Humic acids from leonardite and fermented grain by-products
Recommended Uses:	Soil amendment product – See product label for full directions for use.
Restrictions for Use:	See product label for any potential restrictions on use.
Manufactured For: WINFIELD SOLUTIONS, LLC 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)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
<b>EMERGENCY OVERVIEW:</b> Dark brown liquid with corn silage/feed like odor. Causes moderate eye and skin irritation. May cause respiratory irritation.	
<b>POTENTIAL HEALTH EFFECTS:</b>	
Eyes: Causes moderate but reversible eye irritation.	
Skin: Causes moderate skin irritation including redness and irritation.	
Inhalation: May cause minor irritation of the upper respiratory tract.	
Ingestion: May cause gastric upset if swallowed.	
Preexisting Conditions: None known	
Chronic Health Effects: None known	
Carcinogenicity	NTP: Not listed                      IARC: Not listed                      OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> Eye Irritation Category 2A; Skin Irritation Category 2; Specific Target Organ Toxicity – Single Exposure Category 3	
<b>SIGNAL WORD:</b> WARNING	
<b>HAZARD STATEMENTS:</b>	
Causes serious eye irritation.	
Causes skin irritation. May cause respiratory irritation.	
<b>Percent of product with unknown toxicity:</b> 0%	
<b>PRECAUTIONARY STATEMENTS:</b>	
<b>Prevention:</b> Wash hands thoroughly after handling. Wear protective gloves, eye and face protection. Avoid breathing mist or spray. Use only outdoors in a well-ventilated area.	

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<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. <b>If eye irritation persists:</b> Get medical attention. <b>If on skin:</b> Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. <b>If inhaled:</b> 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.
<b>Storage:</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<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. #
Humic acids from leonardite ore	1.0%	1415-93-6
Fermented grain by-products	40.0%	*
*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	
<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 if irritation persists.
<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>	Carbon dioxide, dry chemical, foam, water spray or fog
<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>	Carbon monoxide and carbon dioxide
<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 product 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>	None known

SECTION 7: HANDLING AND STORAGE			
<b>Handling:</b> Ensure adequate ventilation during handling and use. 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 away from children, food and feed products in an area away from incompatible substances. Protect packaging from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature.			
<b>Minimum Storage Temperature:</b> 32°F			
<b>Other Precautions:</b> Consult Federal, state and local laws and regulations pertaining to storage.			

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION			
<b>Exposure Guidelines</b>			
<b>Component:</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>NIOSH REL</b>
No components have an exposure limit			
<b>Respiratory Protection:</b> For most well-ventilated conditions, no respiratory protection should be needed. If airborne concentrations exceed exposure limits, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.			
<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 exposure to skin.			
<b>Eye Protection:</b> To avoid contact with eyes, wear chemical safety goggles or safety glasses and full face shield. Contact lenses are not protective eye devices. An emergency eyewash or water supply should be readily accessible to the work area.			
<b>Other Protective Clothing or Equipment:</b> Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.			
<b>Work/Hygiene 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>	1.12 (typical)
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Density (lbs/gallon):</b>	9.35 lbs/gallon (typical)
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	Not determined
<b>Solubility in Water (wt %):</b>	Not determined	<b>Boiling Point/Range:</b>	>212°F (100°C)
<b>Viscosity:</b>	Not determined	<b>pH:</b>	Not determined
<b>Appearance and odor:</b>	Dark brown liquid with corn silage/feed like odor	<b>Flash Point:</b>	Not determined

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 conditions.	
<b>Possibility of Hazardous Reactions:</b> None known	
<b>Conditions to Avoid:</b> Avoid contact with incompatible materials.	
<b>Incompatible Materials:</b> Strong oxidizing agents.	
<b>Hazardous Decomposition Products:</b> Carbon oxides may be formed in a fire situation.	

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>ACUTE TOXICITY</b>	
Eye Effects:	Causes moderate but reversible eye irritation.
Skin Effects:	Causes moderate skin irritation. LD50 is not determined
Acute Inhalation Effects:	May cause minor irritation of the upper respiratory tract but is not anticipated to be acutely toxic.
Acute Oral Effects:	LD50 is not determined
Specific Target Organ	Respiratory tract
Toxicity:	
<b>CHRONIC TOXICITY</b>	
Chronic Effects:	None known
Carcinogenicity:	No component is anticipated to have carcinogenic effects.
Mutagenicity:	No component is anticipated to have mutagenic effects.
Teratogenicity:	No component is anticipated to have teratogenic effects.
Reproductive Toxicity:	No component is anticipated to have effects on the reproductive system.
<b>POTENTIAL HEALTH EFFECTS:</b>	
Eyes:	Causes moderate but reversible eye irritation.
Skin:	Causes moderate skin irritation including redness and irritation.
Inhalation:	May cause minor irritation of the upper respiratory tract.
Ingestion:	May cause gastric upset if swallowed.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>ENVIRONMENTAL SUMMARY:</b> Not determined	
<b>ECOTOXICITY DATA:</b>	
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
<b>ENVIRONMENTAL EFFECTS:</b>	
Soil Absorption/Mobility:	Not determined
Persistence and degradability:	Not determined
Bioaccumulative Potential:	Not determined
Other adverse effects:	Not determined

**SECTION 13: DISPOSAL CONSIDERATIONS**

<b>Waste:</b>	Dispose of in accordance with applicable Federal, state and local laws and regulations.
<b>Container:</b>	Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.
<b>RCRA Characteristics:</b>	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**

<b>DOT: (Ground)</b>	This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.
<b>IMDG: (Sea)</b>	This product is not regulated by the IMDG code as a hazardous material for shipment by sea.
<b>IATA: (Air)</b>	This product is not regulated by the IATA as a hazardous material for air shipment.
<b>TDG: (Canada)</b>	This product is not regulated by the TDG as a hazardous material for ground shipment.

**SECTION 15: REGULATORY INFORMATION**

**TSCA Inventory:** All components are listed or exempt from listing on the TSCA inventory.

**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

**California Proposition 65:** This product does not contain any chemicals 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)
No components listed		

**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**

**Disclaimer:** The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

**Revision Date:** October 29, 2014      **Supersedes document dated:** N/A – New document  
**Sections Revised:** N/A – New document