

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY
0	Least			Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information.
1	Slight	2	Health	
2	Moderate	0	Flammability	
3	High	0	Reactivity	
4	Severe			

SECTION 1: IDENTIFICATION	
Product Name:	IronUp™
EPA Registration #:	Exempt
Product ID/Unity #:	1621505, 1509661, 1447330
Common Name:	Sodium ferric EDDHA
Chemical Description:	Ethylendiamino-N-N-bis (2 hydroxyphenylacetic acid) ferric-sodium complex
Recommended Uses:	Fertilizer 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	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 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	
EMERGENCY OVERVIEW: Odorless dark red solid micro-granules. Based on currently available data, this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling the product. Product may cause oxygen deficiency in confined spaces; follow all OSHA regulations pertaining to confined space entry.	
POTENTIAL HEALTH EFFECTS: Eyes: Direct contact with eyes may cause temporary irritation. Skin: Prolong skin contact may cause temporary irritation. Inhalation: Inhalation of powder may be an irritant to the respiratory pathways. Ingestion: May be harmful if swallowed. Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to dust. Chronic Health Effects: None known	
Carcinogenicity	NTP: Not Listed IARC: Not Listed OSHA: Not Listed
OSHA HCS 2012 CLASSIFICATION: This product does not meet the definition of a hazardous substance under OSHA's Hazard Communication Standard.	
SIGNAL WORD: CAUTION	
HAZARD STATEMENTS: None required.	
Percent of product with unknown toxicity: 0%	
PRECAUTIONARY STATEMENTS: Prevention: See Section 8 for personal protection equipment. Response: See Section 4 for first aid information. Storage: See Section 7 for storage information. Disposal: See Section 13 for disposal information.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Ethylendiamino-N-N-bis (2 hydroxyphenylacetic acid) ferric-sodium complex	*	16455-61-1
*Designates that a specific chemical identity and/or percentage of composition has been withheld as trade secret.		
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.
Ingestion:	Seek medical attention or call a poison control center immediately 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.
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 separately 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

Suitable Extinguishing Media: Foam, nebulized water or carbon dioxide.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

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.

Hazardous Combustion Products: Oxides of sulfur, nitrogen, and other chemicals may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.

Unusual Fire and Explosion Hazards: In case of fire or explosion, do not breathe fumes. Possible development of nitrogen and sulfur gases.

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 spilled product and any rinse water from entering sewers or waterways.

Methods for Containment: Contain spilled product by sweeping up if a small spill or by diking area with sand or earth if a large spill.

Methods for Clean-up: Vacuum, scoop or sweep up material and place in a container for disposal. If product is uncontaminated, spilled material may be applied at the rate recommended on the label. Never return spills to original containers for re-use. After removal of spilled product, flush contaminated area thoroughly with water.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: Avoid breathing dust. Use only outdoors or in a well-ventilated area. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Avoid formation of powder, as high concentrations in the air may be dangerous. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in a cool, dry area away from children, feed and food products. Store away from incompatible materials. Protect packaging from physical damage. Protect from exposure to fire conditions. Do not store in aluminum or metal vessels.

Minimum Storage Temperature: Not applicable

Other Precautions: 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
Soluble Iron Salt		1 mg/m ³ TWA	
Nuisance dust	10 mg/m ³ TWA		
Respiratory Protection: If dust concentration exceeds permissible levels, wear NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.			
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 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 available 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

Physical State:	Solid	Bulk Density (lbs/gallon):	5.007-5.424 lbs/gallon (600 – 650 kg/m ³)
Vapor Pressure (mm Hg):	Not applicable	Freezing Point:	Not available
Vapor Density (Air=1):	Not applicable	Boiling Point/Range:	Not applicable
Solubility in Water (wt %):	90-100 g/l	pH:	7.5 @ 77°F (25°C)
Viscosity:	Not applicable	Flash Point:	Not applicable
Appearance and odor:	Dark red with no odor		

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hydrogen gas develops when aqueous solutions are placed in contact with aluminum and copper.	
Chemical Stability: Product is stable at ambient temperature and pressure, under normal storage and handling conditions.	
Hazardous Polymerization: Will not occur	
Conditions to Avoid: Avoid strong oxidants, heating at high temperatures (250-300°C) and moist non ventilated places.	
Incompatible Materials: Strong bases, acids and oxidizers.	
Hazardous Decomposition Products: Oxides of sulfur, nitrogen, and other chemicals may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well	

SECTION 11: TOXICOLOGICAL INFORMATION

<u>ACUTE TOXICITY</u>	
Eye Effects:	Direct contact with eyes may cause temporary irritation.
Skin Effects:	Prolong skin contact may cause temporary irritation.
Acute Inhalation Effects:	Product may be an irritant to the respiratory system. Heating over 150°C (302°F) produces nitrogen oxides that may cause pulmonary edema and consequent increased sensibility to the infections of the respiratory system.
Acute Oral Effects:	May be harmful if swallowed.
Specific Target Organ Toxicity:	Not determined.
<u>CHRONIC TOXICITY</u>	
Chronic Effects:	Not determined.
Carcinogenicity:	This product is not considered to be a carcinogen by IARC, ACGIH or NTP.
Mutagenicity:	Not determined.
Teratogenicity:	Not determined.
Reproductive Toxicity:	Not determined.
<i>Continued on next page</i>	

POTENTIAL HEALTH EFFECTS:

Eyes: Direct contact with eyes may cause temporary irritation.

Skin: Prolong skin contact may cause temporary irritation.

Inhalation: Inhalation of powder may be an irritant to the respiratory pathways.

Ingestion: May be harmful if swallowed.

Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposure to dust.

Chronic Health Effects: None known

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not determined

ECOTOXICITY DATA:

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

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: 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

DOT: This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.

IMDG: Not determined
(Sea)

IATA: Not determined
(Air)

TDG: Not determined
(Canada)

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All components are either 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: 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

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.

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Sections Revised: All Sections