

IRON LAIDEN® 0-0-1 LIQUID

Safety Data Sheet

NFPA HAZARD RATING

U.S. TRANSPORT SUMMARY

0	Least		
1	Slight	1	Health
2	Moderate	1	Flammability
3	High	0	Reactivity
4	Severe		

Not Regulated by U.S. DOT for ground shipment

SECTION 1: IDENTIFICATION

Product Name: IRON LAIDEN® 0-0-1

Product ID/Unity #:

Common Name: Micronutrient fertilizer Chemical Description: Liquid fertilizer

Recommended Uses: Agricultural micronutrient product. See product label for use information See product label for information regarding restrictions on the use of this product.

Manufactured For:

MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)

WINFIELD SOLUTIONS, LLC

P. O. Box 64589 **Non-Emergency Business Inquiries:** 1-855-494-6343 St. Paul, MN 55164-0589 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

POTENTIAL HEALTH EFFECTS:

Skin Sensitivity: Category 1B, May cause an allergic skin reaction

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

OSHA HCS 2012 CLASSIFICATION: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication

Standard (29 CFR 1910.1200) SIGNAL WORD: WARNING

HAZARD STATEMENTS:

H317- May cause an allergic skin reaction.

P280- Wear protective gloves/protective clothing/eye protection/face protection.

P361- Remove/Take off immediately all contaminated clothing.

P302+P352- IF ON SKIN: Wash with plenty of soap and water.

P333+P313- If skin irritation or rash occurs: Get medical advice/attention.

P501- Dispose of contents/container according to local regulations.



Percent of product with unknown acute inhalation toxicity: not determined, assessment of product was made on the basis of ownership of components of the mixture – Fe(III)HBED

PRECAUTIONARY STATEMENTS:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Wear protective gloves/protective clothing/eye protection/face protection. Do NOT breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin

thoroughly after handling.

Response: IF exposed or concerned: Get medical advice/attention. Remove/take off all contaminated clothing. Wash prior

to reuse.

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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.

IF ON SKIN: Wash plenty of water and soap. If skin irritation occurs, get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical attention if you feel

unwell.

Storage: Store locked up. See Section 7 and the product label for further information.

Disposal Dispose of contents/container to an approved waste disposal plant. See Section 13 and the product label for

further information.

Other: May cause allergic reaction if in contact with skin.

Ingredient	% (wt)	CAS Reg. #
Fe(III)HBED; N,N'-di(2-hydroxybenzyl) ethylenediamine-N,N'-diacetic acid iron (III) sodium salt	>1%	1061328-86-6
*Ingredients not specifically listed are non-hazardous and are considered to be 1910.1200(i).	pe confidential busines	ss information under 29 CFR

SECTION A. FIRST AIR MEASURES

SECTION 4.1 INST AID MEASURES		
General	If exposed or concerned, get medical advice/attention. Show this safety data sheet to the doctor in	
Advice:	attendance.	
Inhalation:	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.	

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact Eyes:

lenses if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do no rub affected

area. Get medical attention if irritation develops and persists.

Rinse immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Skin:

Get medical attention if irritation develops and persists.

Rinse mouth, give 2-3 glasses of water to drink. Seek medical attention. Induce vomiting. Clean mouth with Ingestion:

water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically Note to

physicians:

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Depending on the materials stored, use the following extinguishing media: Foam, water spray, dry chemical powder, CO₂

Unsuitable Extinguishing Media: Unknown

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. Do not allow fire-fighting water to enter surface ground water or ground water. Dispose of fire control water later. Avoid breathing vapors: keep upwind.

Hazardous Combustion Products: Produces oxides of nitrogen on combustion: NyOx and also CO, CO2

Unusual Fire and Explosion Hazards: Thermal decomposition can lead to release of irritating and toxic gases and vapors

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. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

Environmental Precautions: Do not let product enter drains. If the product enters drains or water, immediately inform appropriate authorities.

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Methods for Containment: Stop the leak. Collect into a suitable container using absorbent and pass for disposal. After removal, wash the spillage are with water. Prevent further leakage or spillage if safe to do so.

Methods for Clean-up: Pick up and transfer to properly labeled containers.

Other Information: Do not flush into public water courses. Do not empty in to drains, ground or surface water and soil. If the product enters drains and water, immediately inform appropriate authorities.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid formation of mist/aerosol. Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment according to Section 8. Do not dispose to sewage system. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take of contaminated clothing and wash before reuse. Ensure adequate ventilation.

Storage: Keep in original, tightly closed container in a dry, cool place. Keep away from heat and sources of ignition.

Minimum Storage Temperature: Do not store below 40°F

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Component: **OSHA PEL ACGIH TLV NIOSH REL**

Respiratory Protection:

Engineering Controls: Showers. Evewash stations. Ventilation systems

Protective Gloves: Impervious gloves (recommended nitrile gloves, layer thickness .11mm and breakthrough time >480 minutes)

Eve/Face Protection: Tightly sealing safety goggles Skin and Body Protection: Impervious clothing

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or

irritation is experienced, ventilation and evacuation may be required.

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. Wear suitable gloves and eye/face protection.

Avoid contact with skin, eyes or clothing. Change contaminated clothing. Immediately remove spilled substance.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Liquid	Specific Gravity (H₂O=1):	Not determined
Vapor Pressure (mm Hg):	Not determined	Relative Density (Ibs/gallon):	11.68lbs/gal (1.4 g/mL
			@20.7° C)
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined
Solubility in Water (wt %):	Soluble	Boiling Point/Range:	Not determined
Dynamic Viscosity:	Not determined	pH:	9.0
Appearance and odor:	Brown, odorless	Flash Point:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Low chemical reactivity, Normal under normal use conditions Chemical Stability: Stable under normal use and storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: Keep away from heat. In the event of a fire, produces oxides of nitrogen (NOx)

Incompatible Materials: None

Hazardous Decomposition Products: In the event of fire, produces oxides of nitrogen (NOx)

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SECTION 11: TOXICOLOGICAL INFORMATION				
ACUTE TOXICITY – This assessment was made based on components of the mixture:				
Substance name: %	w/w Method	Result	<u>Units</u>	
Fe(III) HBED 10	0 LD50 (oral, rat, OECD 420/ Method B.1.Bis)	>2000	mg/kg	
	LD50 (dermal, rate, OECD 402/ Method B.3	>2000	mg/kg	
Eye Effects:	Based on components, not irritatiog (OECD 4	05/EU Method B.5)		
Skin Effects:	Based on components, not irritating (OECD 4	04/EU Method B.4)		
Acute Inhalation Effects:	Not determined.	,		
Acute Oral Effects: Not determined.				
Specific Target Organ Toxicity: Not determined				
CHRONIC TOXICITY				
Chronic Effects:	Not determined			
Carcinogenicity:	Classification based on data available for ingr			
Germ cell Mutagenicity: Not mutagenic (Bacterial Reverse Mutation Assay -Ames Test, according to OECS TG 4)			cording to OECS TG 471:	
	Negative			
Teratogenicity: Not determined				
STOT – Single exposure	Classification based on data available for ingredients. Not harmful			
STOT – repeated exposure	Classification based on data available for ingredients. Not harmful			
Target Organ effects	Not determined.			
Reproductive Toxicity:	Classification based on data available for ingr	edients. Not harmful.		
POTENTIAL HEALTH EFFECTS:				
Skin Sensitivity: Category 1B, Ma	ay cause an allergic skin reaction			

SECTION 12: ECOLOGICAL INFORMATION				
ENVIRONMENTAL SUMMARY: There is no available eco-toxicological studies for the mixture as such. The assessment was				
made on the basis of ownership of components of the mixture – Fe(III)HBED.				
Substance: % w/w	Method Result Units			
Fe(III)HBED 100	LC50 (fish, 96h) >100 mg/L			
	EC50 (daphnia, 48h) >100 mg/L			
ECOTOXICITY DATA:				
Fish Acute and Prolonged To				
Aquatic Invertebrate Acute To	oxicity: Not determined			
Aquatic Plant Toxicity:	Not determined			
Bird Acute and Prolonged To	xicity: Not determined			
Honeybee Toxicity:	Not determined			
ENVIRONMENTAL EFFECTS:				
Soil Absorption/Mobility:	The logKoc value is less than the threshold value of 3, indicating no absorbing potential			
	for this compound.			
Persistence and degradability				
	OECD 302B. The substance attained 8.2% degradation after 28 days and is therefore			
	considered as not inherently biodegradable. Furthermore, the substance formed vert stable complexes in an iron chelate interaction experiment. This is will be hydrolytically			
stable complexes in an iron chelate interaction experiment. This is will be hydrolyti stable as well.				
Bioaccumulative Potential:	The substance specific logPow was determined as -1.96 according to OECD Guideline			
	107. The threshold value is <= 4,5 so the substance has low potential for for			
	bioaccumulation.			
Other adverse effects:	Fe(III)HBED does not fulfill and of the relevant criteria for PBT or a vPvB-substance,			
	respectively.			

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container: Do not reuse empty containers.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

California Hazardous Waste Status: This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Not listed	

	SECTION 14: TRANSPORT INFORMATION		
DOT: (Ground)	This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.		
IMDG: (Sea)	Not determined		
IATA: (Air)	Not determined		
TDG: (Canada)	Not determined		

SECTION 15—REGULATOTY INFORMATION

TSCA Inventory: Contact supplier for inventory compliance status

SARA Title III Information:

Section 302 - Extremely hazardous None listed

substances:

Section 311/312 – Hazard Acute Health Hazard – Yes

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 contains the following Proposition 65 chemicals:

Chemical Name	-	California Proposition 65
None listed		

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical Name CAS # State(s)

None listed

Canadian Domestic Substances List: Not determined Chemical Name CAS #

WHMIS Classification: Not determined

Section 16—Other

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Revision Date: May 8, 2023 Supersedes document dated: January 12, 2022

Sections Revised: Section 7 (minimum storage temperature)

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