

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:	ChelStar Liquid Iron 4.5% HEDTA Chelate
EPA Registration #:	Exempt
Product ID/Unity #:	10005929, 10125473, 15549122
Common Name:	Liquid iron fertilizer
Chemical Description:	Ferric HEDTA
Recommended Uses:	Fertilizer product – See product label for full directions for use.
Restrictions for Use:	See product label for any potential restrictions on use.
Chemurgic Agricultural Chemicals, Inc PO Box 2106 Turlock, CA 95381 (209)634-2951	: INFOTRAC 1-800-535-5053  : EPA National Response (800) 424-8802
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
<b>EMERGENCY OVERVIEW:</b> Clear, dark red liquid. May cause mild and temporary skin and eye irritation. Based on currently available data, this product does not meet the regulatory definition of a hazardous chemical. However, good industrial hygiene practices should be used in handling the product.	
<b>POTENTIAL HEALTH EFFECTS:</b> <b>Eyes:</b> May cause mild but reversible eye irritation. <b>Skin:</b> May cause mild but reversible skin irritation. <b>Inhalation:</b> May cause minor irritation of the upper respiratory tract. <b>Ingestion:</b> May cause minor irritation of the digestive tract. <b>Preexisting Conditions:</b> None known <b>Chronic Health Effects:</b> None known	
Carcinogenicity	NTP: Not listed                      IARC: Not listed                      OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> This product does not meet the definition of a hazardous chemical under OSHA's Hazard Communication Standard.	
<b>SIGNAL WORD:</b> CAUTION	
<b>HAZARD STATEMENTS:</b> None required	
Percent of product with unknown toxicity: 0.05%	
<b>PRECAUTIONARY STATEMENTS:</b> <b>Prevention:</b> See Section 8 for personal protective equipment. <b>Response:</b> See Section 4 for first aid information. <b>Storage:</b> See Section 7 for storage information. <b>Disposal:</b> See Section 13 for disposal information.	

# ChelStar Liquid Iron 4.5% HEDTA Chelate

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
Ingredient	% (wt)	CAS Reg. #
Ferric HEDTA	20.0 – 30.0%	17084-02-5
*Ingredients not specifically listed are non-hazardous and/or are considered to be confidential business information under 29 CFR 1910.1200(j).		
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, water spray or foam
<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>	Asphyxiates such as carbon monoxide may result from combustion. Nitrogen oxides may form as well.
<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. Ensure that storage area is secured. Protect packaging from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature
<b>Minimum Storage Temperature:</b>	40°F
<b>Other Precautions:</b>	Consult Federal, state and local laws and regulations pertaining to storage.

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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 listed guidelines			
<b>Respiratory Protection:</b> If conditions are poorly ventilated or exceed the established 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> While not expected to cause skin irritation, the use of chemically protective gloves is recommended to prevent against skin contact.			
<b>Eye Protection:</b> While not expected to cause eye irritation, the use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.			
<b>Other Protective Clothing or Equipment:</b> Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.			
<b>Work/Hygienic 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>	1.31 (typical)
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Density (lbs/gallon):</b>	10.9 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>	Soluble	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>pH (1% solution):</b>	2.5
<b>Appearance and odor:</b>	Clear, dark red liquid	<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> Will not occur
<b>Conditions to Avoid:</b> Excessive heat
<b>Incompatible Materials:</b> Strong oxidizers, acids and bases.
<b>Hazardous Decomposition Products:</b> Asphyxiates such as carbon monoxide may result from combustion. Nitrogen oxides may form as well.

SECTION 11: TOXICOLOGICAL INFORMATION	
<b><u>ACUTE TOXICITY</u></b>	
<b>Eye Effects:</b>	May cause mild but temporary eye irritation.
<b>Skin Effects:</b>	May cause mild but temporary skin irritation. Sufficient data does not exist to determine an estimated LD50
<b>Acute Inhalation Effects:</b>	No available LC50 value for classification but based upon component information, this product is not anticipated to be toxic by inhalation.
<b>Acute Oral Effects:</b>	Sufficient data does not exist to determine an estimated LD50
<b>Specific Target Organ Toxicity:</b>	None known
<b><u>CHRONIC TOXICITY</u></b>	
<b>Chronic Effects:</b>	None known
<b>Carcinogenicity:</b>	No component is anticipated to have carcinogenic effects.
<b>Mutagenicity:</b>	No component is anticipated to have mutagenic effects.
<b>Teratogenicity:</b>	No component is anticipated to have teratogenic effects.
<b>Reproductive Toxicity:</b>	No component is anticipated to have effects on the reproductive system.

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## POTENTIAL HEALTH EFFECTS:

**Eyes:** May cause mild but reversible eye irritation.

**Skin:** May cause mild but reversible skin irritation.

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

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

## 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:** 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.

## SECTION 14: TRANSPORT INFORMATION

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

**IMDG:** Not determined (Sea)

**IATA:** Not determined (Air)

**TDG:** Not determined (Canada)

## 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:** None

**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.

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## ChelStar Liquid Iron 4.5% HEDTA Chelate

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: All components are listed on the NDSL.

WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.