

# SAFETY DATA SHEET

## 1. Identification

Product identifier Other means of identification	ChelStar 13.2% Iron Chelate Not available.	
Synonym(s)	[(Ethylenedinitrilo)tetraacetato]ferrate(1-), Sodium * EDTA, IRON (III) SODIUM * MONOSODIUM FERRIC EDTA * SODIUM FERRIC ETHYLENEDIAMINETETRAACETATE (EDTA)	
Recommended use	Agriculture - Chelated Micronutrient - Refer to product label for application instructions	
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name Address	Chemurgic Agricultural Chemicals, Ltd. P.O. Box 2106 Turlock, CA 95381	
Telephone E-mail Emergency phone number	DAY: 209-634-2951 EVE: 209-652-7260 info@chemurgic.net INFOTRAC: 1-800-535-5053	

EPA National Response Center: (800) 424-8802

## 2. Hazard(s) identification

Physical hazards	Not classified.		
Health hazards	Not classified.		
OSHA defined hazards	Not classified.		
Label elements			
Hazard symbol	None.		
Signal word	None.		
Hazard statement	The mixture does not meet the criteria for clas	sification.	
Precautionary statement			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of contents/container in accordance v	vith local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	Not classified.		
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3	
	Hazardous to the aquatic environment, long-term hazard	Category 3	
Supplemental information			
Hazard statement	Harmful to aquatic life. Harmful to aquatic life	with long lasting effects.	
Precautionary statement			
Prevention	Avoid release to the environment.		
Not applicable.			
3. Composition/informatio	n on ingredients		
Mixtures	<b>U</b>		

Hazardous components			
Chemical name	Common name and synonyms	CAS number	%
Ferric EDTA, Sodium Salt		15708-41-5	90 - 100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	

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Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Move container from fire area if it can be done without risk.	
6. Accidental release meas	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.	
Methods and materials for	Stop the flow of material, if this is without risk.	
containment and cleaning up	Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.	
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.	
	Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.	
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.	
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the MSDS).	
8. Exposure controls/personal protection		

Occupational exposure limits	No exposure limits noted for ingredient(s).		
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
Individual protection measures,	such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.		

Other	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

9. Filysical and chemical p	hopenies		
Appearance			
Physical state	Yellow crystals.		
Form	Dry crystals.		
Color	Yellow. to. Brown		
Odor	Odorless.		
Odor threshold	Not available.		
рН	4.5 - 5.5		
Salt-Out / Crystallization Temp	Not available.		
Melting point/freezing point	Not available.		
Initial boiling point and boiling range	Not available.		
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or exp	losive limits		
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor pressure	< 0 hPa		
Vapor density	Not available.		
Relative density	1.78 (OECD Guideline 109)		
Solubility(ies)	90% @ 77 degrees F		
Partition coefficient (n-octanol/water)	-8.8 (calculated) The data refers to teh undissociated form of the substance.		
Auto-ignition temperature	Not available.		
Decomposition temperature	> 411.8 °F (> 211 °C) (OECD Guideline 102)		
Viscosity	Not available.		
Other information			
Density	1.78 g/cm <sup>3</sup> (OECD Guideline 109)		
pH in aqueous solution	4.5 - 5.5 2% Solution		

# 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the decomposition temperature.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

# 11. Toxicological information

## Information on likely routes of exposure

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Ingestion	Due to lack of data the classification is not possible.		
Inhalation	Due to lack of data the classification is not possible.		
Skin contact	Due to lack of data the classification is not possible.		
Eye contact	Due to lack of data the classification is not possible.		
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.		
Information on toxicological effe	ects		
Acute toxicity	Not available.		
Skin corrosion/irritation	Due to lack of data the classification is not possible.		
Serious eye damage/eye irritation	Due to lack of data the classification is not possible.		
Respiratory sensitization	Due to lack of data the classification is not possible.		
Skin sensitization	Due to lack of data the classification is not possible.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Due to lack of data the classification is not possible.		
Reproductive toxicity	Due to lack of data the classification is not possible.		
Specific target organ toxicity - single exposure	Due to lack of data the classification is not possible.		
Specific target organ toxicity - repeated exposure	Due to lack of data the classification is not possible.		
Aspiration hazard	Due to lack of data the classification is not possible.		
40 Feelewieel information			

# 12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.		
Product		Species	Test Results
ChelStar 13.2% Iron Chelate	(CAS 15708-41	-5)	
Fish	LC50	Fish	100 mg/l, 96 hours, estimated
Components		Species	Test Results
Ferric EDTA, Sodium Salt (CA	AS 15708-41-5)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	) 100 mg/l, 96 hours
* Estimates for product may b	e based on add	itional component data not shown.	
Persistence and degradability	No data is av	ailable on the degradability of this product.	
Bioaccumulative potential	Not available		
Partition coefficient n-octar ChelStar 13.2% Iron Chelate	ol / water (log		ata refers to the undissociated form
Mobility in soil	Not available		
Other adverse effects		erse environmental effects (e.g. ozone dep ocrine disruption, global warming potential	
13. Disposal consideration	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazardous waste code	The waste co disposal com	de should be assigned in discussion betwee pany.	een the user, the producer and the waste
Waste from residues / unused products		accordance with local regulations. Empty dues. This material and its container must b ructions).	

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

## ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

## 15. Regulatory information

#### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Hazard categories

SARA 304 Emergency release notification

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely No hazardous substance SARA 311/312 Hazardous No chemical

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.

#### Safe Drinking Water Act (SDWA): Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number: Not listed.

Food and Drug Administration (FDA): Not regulated.

#### US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

## 16. Other information, including date of preparation or last revision

Issue date Version # Further information Disclaimer	08-11-2016 01 Not available. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders. <b>This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats</b>
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