

SAFETY DATA SHEET

Green Soybean IDC™

1. Identification

Product Identifier: Green Soybean IDC™

Product Use: Fertilizer micronutrient

Details of the Supplier of the Safety Data Sheet: Winfield Solutions, LLC
P.O. Box 64589
St. Paul, MN 55164 USA

Information (Non-Emergency): 1-855-494-6343

Emergency: For Chemical Emergency, Spill, Leak, Fire, Exposure Or Accident, Call: CHEMTREC 1-800-424-9300 (24 hrs)

For Medical Emergency: 1-877-424-7452

2. Hazard Identification

Not Classified

GHS Classification:

Health	Environmental	Physical
Not Classified	Not Classified	Not Classified

GHS Label:

Symbols: None Required	
<i>Hazard Statements</i> None required	<i>Precautionary Statements</i> None required

3. Composition / Information on Ingredients

Substance	CAS #	EC #	Wt. %
EDDHA-Fe (Sodium [[α,α'-(ethylenediimino)bis[2-hydroxybenzene-1-acetato]](4-)]ferrate(1-)	16455-61-1	240-505-5	>99

See Section 8 for exposure limits

4. First Aid Measures

Inhalation: IF INHALED: Remove person to fresh air and ensure comfortable breathing.

Skin Contact: IF ON SKIN: Take off contaminated clothing. Rinse with water for several minutes. Seek medical advice if irritation occurs. Wash contaminated clothing before reuse.

Eye Contact: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: IF SWALLOWED: Rinse mouth, drink water. Call a doctor if you feel sick.

Note to physician: Chelating agent. Treat symptomatically.

5. Fire Fighting Measures

Suitable Extinguishing media: Water/foam, carbon dioxide, ABC fire extinguisher powder; water fog should be used to cool fire-exposed containers, structures and to protect personnel.

Unsuitable Extinguishing media: None identified.

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Special exposure hazards: During fire, gases hazardous to health may be formed.

Combustion products: May produce toxic carbon monoxide, incomplete combustion products, and nitrogen oxides if heated to decomposition.

Protection of firefighters: Fire fighters should wear full protective clothing including self-contained breathing apparatus. Keep personnel removed and upwind of fire. Keep containers cool with water spray. Do not inhale combustion gases.

NFPA Hazard Classification: Health: 1 Flammability: 1 Instability: 0 Special: --

This information is intended solely for the use of individuals trained in the NFPA system.

6. Accidental Release Measures

Personal precautions: Use suitable protective equipment (see section 8) to prevent contamination of skin, eyes and personal clothing.

Environmental Precautions: Prevent spills from entering storm sewers or drains and contact with soil.

Methods for cleanup: Use a suitable inert adsorbent (sand, sawdust, etc.) and shovel and dispose in accordance with applicable regulations and product characteristics at time of disposal (see also Section 13).

7. Handling and Storage

Handling: Provide appropriate exhaust ventilation. Avoid contact with eyes. Do not breathe dust. Practice good housekeeping. Wash contaminated clothing before reuse. Prohibit eating, drinking and smoking in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Storage: Store in the original tightly closed container in a dry and well ventilated area away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure Limits: ACGIH: Soluble iron salts (as Fe): 1 mg/m³ TWA.

Engineering controls: Local exhaust ventilation is recommended.

Personal protection: General: General hygiene considerations are appropriate when used as recommended. The following precautions are recognized as common good industrial hygiene practice. Emergency conditions may require additional precautions. Follow precautions listed and recommendations for personal protective equipment.

Eye: Wear safety glasses or use tight fitting goggles when dust is generated. Have eye-wash stations available where eye contact can occur.

Skin: Avoid skin contact. Wear rubber gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of apron, face shield, boots or full body protection. Wash hands thoroughly after handling. A safety shower should be located in the work area.

Respiratory: Do not breathe dust. NIOSH approved respiratory protection should be worn if exposure limits are exceeded. A NIOSH approved respirator is generally acceptable for concentrations up to 10 times the PEL. Use a NIOSH approved air-supplied respirator for higher concentrations, unknown concentrations and for oxygen deficient atmospheres. Engineering controls are the preferred means for controlling chemical exposures. In case of inadequate ventilation wear respiratory protection. Respiratory protection may be needed for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA 29 CFR 1910.134.

Thermal: Wear appropriate thermal protective clothing, when necessary.

Environmental: See Section 6.

9. Physical and Chemical Properties

Physical State:	Solid (microgranules)
Color:	Dark red
Odor:	Not available
Melting/ Freezing point/ range:	>300°C
Initial Boiling point/ range:	Not available

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Flammability (solid, gas):	Not available
Upper/ lower flammability or explosive limits:	Not available
Flash Point:	Not available
Autoignition temperature:	140 °C
Decomposition temperature:	Not available
pH:	Not available
Viscosity:	Not available
Solubility in water:	113 g/L @30°C
Solubility in fats/ oils:	Not available
Partition Coefficient (n-octanol-water):	Log Pow < -4.2
Vapor pressure:	Not available
Relative density:	0.55 g/cm ³ @20°C
Vapor density:	Not available

10. Stability and Reactivity

Reactivity	Reacts with strong oxidizing agents.
Chemical Stability:	Material is stable under normal conditions.
Hazardous Reactions:	Stable under normal processing..
Conditions to Avoid:	Avoid heating product to high temperature.
Incompatible Materials:	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Products	No hazardous decomposition products are known. See also Section 5.

11. Toxicological Information

Acute Toxicity Estimate:	Rat oral LD50 > 2,000 mg/kg Rat dermal LD50 > 2,000 mg/kg Rat inhalation LD50 > 4,200 mg/L/4h
Skin corrosion / irritation:	Not Classified. May irritate skin.
Serious eye damage/eye irritation	Not Classified. May irritate eyes.
Respiratory or skin sensitization:	Not Classified. May irritate respiratory tract.
Germ cell mutagenicity:	Not Classified
Carcinogenicity:	Not Classified
Reproductive toxicity:	Not Classified
STOT-single exposure:	Not Classified
STOT-repeated exposure:	Not Classified.
Aspiration hazard:	Not Classified
Other Information:	Most likely exposure routes are skin and eye contact and dust inhalation.

12. Ecological Information

Toxicity:	<i>Daphnia magna</i> EC50 > 100 mg/L/48h Fish LC50 > 100 mg/L/96h <i>Desmodesmus subspicatus</i> EC50 = 27.3 mg/L/72h
Persistence and degradability:	Not readily biodegradable
Bioaccumulative potential:	Log Kow = -11.9
Mobility in soil:	Not available

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Other adverse effects:

Not PBT or vPvB.

13. Disposal Considerations

Disposal methods: Reclaim if possible or dispose by incineration. Dispose of contents/ container in accordance with local, state and federal regulations.

14. Transport Information

Not classified for transportation.

Environmental Hazards: Not a marine pollutant.

15. Regulatory Information

No components are subject to Montreal Protocol, Stockholm Convention, or Rotterdam Convention.

Region specific regulations

SARA Title III:

Section 302/304. Extremely Hazardous Substances – None

Section 311/312. (40CFR370) Hazardous Categories: None

Section 313: Contains the following SARA 313 Toxic Release Chemicals: None

The following product components are cited on the lists below: None

TSCA (Toxic Substance Control Act): Listed.

CA65: No components are known to the State of California to cause cancer or reproductive toxicity.

16. Other Information

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

Revision History:

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Prepared by: Charles Leonard, CIH ASLAN Group LLC

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