SAFETY DATA SHEET		
Dyna Green Iron	Date Prepared: 10/13/2014	Replaces: All Previous
	SECTION 1. IDENTIFICATION	
Product Name:	Dyna Green Iron	
Synonyms:	GREFE	
Use:	Agricultural, Liquid Micronutrient	: Fertilizer
Manufacturer:	Chemical Dynamics, Inc.	
	4206 Business Lane	
	Plant City FL 33566	
Phone:	813-752-4950	
Chemtrec (Emergency) Phone:	800-424-9300	

SECTION 2. HAZARDS IDENTIFICATION

Product is not classified as hazardous under normal conditions.

Material	CAS #	EINECS #	%WT
Ferrous Lignosulfonate	39331-38-9	609-650-5	Proprietary
Water	7732-18-5	231-791-2	balance

	SECTION 4. FIRST AID MEASURES
General:	In case of persisting adverse effects consult a physician. Treat symptomatically.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Drink large amounts of water. Never give anything by mouth to an unconscious person.
Skin Contact:	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and water.
Inhalation:	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention.
Acute Exposure Symptoms:	May cause slight, transient irritation of eyes and skin. Ingestion may be irritating to the gastrointestinal tract.
Chronic Exposure Symptoms:	Prolonged skin contact may result in dermatitis (inflammation and redness of skin).

	SECTION 5. FIRE FIGHTING MEASURES
Extinguishing Media:	Water spray is recommended. Halon, foam, dry chemical, CO2 or any ABC class extinguisher are acceptable. Use extinguishing agent most appropriate to surrounding materials. Cool containers with water spray to avoid rupture due to thermal expansion.
Specific Hazards:	This product is an aqueous mixture which will not burn. In a fire this material may decompose and produce acrid vapors, iron compounds, sulfur oxides and carbon oxides
Protective Equipment and Precautions for Fire-Fighters:	Wear self-contained breathing apparatus (SCBA) and full protective gear. Avoid inhaling combustion products. Fire run-off should be contained to prevent possible environmental damage.
NFPA Rating:	Health: 1, Fire: 0, Reactivity: 0

	SECTION 6. ACCIDENTAL RELEASE MEASURES
Precautions:	Isolate area. Keep unnecessary personnel away. Avoid splashing or spraying.
Protective	Impervious gloves (rubber, neoprene or nitrile), Long sleeved clothing.
Equipment:	Chemical splash-proof goggles.
	Chemical resistant apron and/or rubber boots may be needed.
Containment:	Stop flow of material if safe to do so. Dike area with diatomaceous earth or sand
	and maximize recovery.
Clean Up:	Pump into a suitable tank or absorb with diatomaceous earth or sand. Sweep up and place into suitable containers for agronomical land application at recommended rates or dispose of in accordance with local/regional/national regulations (See Section 13 of SDS).

	SECTION 7. HANDLING AND STORAGE
Precautions for	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Do not eat,
safe handling:	drink or use tobacco products when handling this material. Apply product in open
	areas. Keep away from children and pets. Do not contaminate feed, seed or any
	water sources. Launder work clothes frequently and separate from other laundry.
Conditions for	Store in original containers in a well-ventilated, cool, dry place, away from direct
safe storage:	sunlight, sources of intense heat, or where freezing is possible. Do not let product
	go below 32°F. Inspect all incoming containers before storage, to ensure containers
	are properly labeled and not damaged.
Incompatibilities:	Water reactive materials, strong oxidizers

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Component	Iron Lignosulfonate	1 mg/m ³	PEL, OSHA (Iron Soluble Salts, as Fe)
Exposure Limits:		1 mg/m ³	TWA, ACGIH (Iron Soluble Salts, as Fe)
		Not Established	IDLH, NIOSH
		1 mg/m ³	REL, NIOSH (Iron Soluble Salts, as Fe)
		Not Established	STEL, NIOSH
Engineering	Provide local exhaust ventilation and wash facilities.		
Controls:			
Personal	Eves: Chemical splash-proof goggles (where splashing is possible)		
Protective	Skin: Impervious gloves (rubber, neoprene or nitrile), long sleeved clothing.		
Equipment:	Chemically resistant apron is recommended.		
	<u>Respiratory</u> : None required for ambient air concentrations (i.e. in the open under normal agronomic conditions) not exceeding occupational exposure limits. Respiratory protection may be required in the event of a spill in an enclosed area. Use a NIOSH/MSHA approved SCBA with full face piece operated in a positive pressure mode.		
General:	Eye wash stations and	safety shower reco	ommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Dark, Opaque liquid		
Odor:	sweet, woody odor	UEL / LEL:	Not Applicable
Odor Threshold:	Not Available	Vapor Pressure:	Similar to water
pH:	2.7 to 4.2	Density:	1.16 to 1.18 g/cm ³
Melting/Freezing Point:	< 0°C (32°F)	Solubility:	Water
Boiling Point:	> 100°C (212°F)	Log _{ow} :	Not Available
Flash Point:	Not Applicable	Auto Ignition Temp:	Not Applicable
Evaporation Rate:	Similar to water	Decomposition Temp:	Not Available
Flammability (Solid/Gas):	Not Applicable	Viscosity	Not Available

SECTION 10. STABILITY AND REACTIVITY		
Reactivity:	Stable	
Chemical Stability:	Stable under normal conditions	
Possibility of Hazardous	Hazardous polymerization will not occur.	
Reactions:		
Conditions to avoid:	Avoid exposure to extreme temperatures, contact with incompatible	
	chemicals and all contact with combustible materials. Elevated	
	temperatures may cause containers to rupture. Cold temperatures may	
	cause product to salt out.	
Incompatible Materials:	Water reactive materials, strong oxidizers.	
Hazardous	Iron compounds, sulfur oxides and carbon oxides	
Decomposition Products:		

	SECTION 11. TOXILOGICAL INFORMATION	
Acute Toxicity:	LD50 oral (rat): >2000 mg/kg	
Likely Routes of	Inhalation, ingestion or skin absorption	
Exposure:		
Symptoms and Signs of	Eyes: May cause mild irritation. May result in redness, tearing and blurred	
Exposure:	vision.	
	Skin: Ma cause mild irritation to the skin. May result in redness, itching and	
	pain.	
	Ingestion: May cause digestive tract irritation, with accompanying nausea,	
	vomiting and diarrhea.	
	Inhalation of mist may irritate or burn nose, throat and lungs. Coughing,	
	nausea, headaches and weakness are possible.	
	Effects are expected to be transient.	
Chronic Effects:	Prolonged skin contact may result in dermatitis (inflammation and redness	
	of skin	
Carcinogenetic:	None of this product's components are listed by IARC, ACGIH, OSHA, NIOSH	
	or NTP as carcinogenic.	
Mutagenicity:	Not Available	
Reproductive Toxicity:	Not Available	

SECTION 12. ECOLOGICAL INFORMATION	
Ecotoxicity:	In high concentrations, this product may be harmful to both terrestrial and
	aquatic plant or animal life.
Other Adverse Effects: Not harmful to ozone layer	
Ecotoxicity:	Not Available

SECTION 13. DISPOSAL CONSIDERATIONS	
General Information:	None
Disposal Instructions:	Agronomical land application at recommended rates or dispose of in
	accordance with local/regional/national regulations. Containers may be
	triple rinsed and offered for recycling.

SECTION 14. TRANSPORT INFORMATION		
This material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation		
Proper Shipping Name:	Not Applicable	
Hazard Class:	Not Applicable	
UN Identification #:	Not Applicable	
Packing Group:	Not Applicable	
Required Label(s):	Not Applicable	
Emergency Response	Not Applicable	
Guide Number:		
Marine Pollutant:	No	

SECTION 15. REGULATORY INFORMATION		
TSCA Inventory Status	All intentional ingredients listed on the TSCA inventory.	
DSCL (EEC) Status	All intentional ingredients listed on the DSCL inventory.	
United States – SARA Hazard Category:	No chemicals in this material have hazard classifications under SARA Title III, Sec 311 and 312	
SARA Title III	This product contains the following substances subject to the reporting	
Information:	requirements of Title III (EPCRA) of the Superfund Amendments and	
	Reauthorization Act of 1986 and 40 CFR Part 372:	
	CERCLA RQ (pounds): No	
	SARA Reporting, 302: No	
	SARA Reporting, 304: No	
	SARA Reporting, 313: No	
Federal Insecticide,	This product is not a pesticide.	
Fungicide, and		
Rodenticide Act		
State Regulations:	Other state regulations may apply. Check individual state requirements.	

SECTION 16. OTHER INFORMATION

Date of Revision:	10/13/2013, revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.
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