SAFETY DATA SHEET

Dyna Green Zinc 10% Date Prepared: 10/13/2014 Replaces: All Previous

SECTION 1. IDENTIFICATION

Product Name: Dyna Green Zinc 10%

Synonym: GREZN10, Zinc Lignosulfonate Solution
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.

SECTION 3. COMPOSITION

MaterialCAS #EINECS #%WTZinc Lignosulfonate57866-49-6Not AssignedWithheldWater7732-18-5231-791-2balance

A proprietary blend of materials not classified as hazardous See product label for guaranteed analysis.

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	May cause slight, transient irritation of eyes and skin. Ingestion may be irritating to	
Symptoms:	the gastrointestinal tract.	
Chronic Exposure	Prolonged skin contact may result in dermatitis (inflammation and redness of skin).	
Symptoms:		

SECTION 5. FIRE FIGHTING MEASURES		
Extinguishing	Water spray is recommended. Halon, foam, dry chemical, CO2 or any ABC class	
Media:	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, zinc compounds, sulfur oxides and carbon	
	oxides	
Protective	Wear self-contained breathing apparatus (SCBA) and full protective gear. Avoid	
Equipment and	inhaling combustion products.	
Precautions for	Fire run-off should be contained to prevent possible environmental damage.	
Fire-Fighters:		
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 safe handling:	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Do not eat, 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 safe storage:	Store in original containers in a well-ventilated, cool, dry place, away from direct 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	All materials in	Not Established	PEL, OSHA
Exposure Limits:	proprietary Zinc	Not Established	TWA, ACGIH
	Lignosulfonate blend	Not Established	IDLH, NIOSH
		Not Established	REL, NIOSH
		Not Established	STEL, NIOSH
Engineering	Provide local exhaust ventilation and wash facilities.		
Controls:			
Personal	Eyes: 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.		
	Respiratory: 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 recommended.		

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:	3 to 6	Density:	1.33 to 1.37 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	Zinc compounds, sulfur oxides and carbon oxides	
Decomposition Products:		

SECTION 11. TOXILOGICAL INFORMATION		
Acute Toxicity:	LD50 oral (rat): Not available, but for analog zinc complex	
	the LD50(oral) Mouse >5000 mg/kg for similar concentration in this product	
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 RQ is assigned to this generic or broad class, (Zinc
	compounds) although the class is a CERCLA hazardous substance. See 50
	Federal Register 13456 (April 4, 1985).
	SARA Reporting, 302: No
	SARA Reporting, 304: No
	SARA Reporting, 313: Yes, 1.0% de minimus concentration (N982, Zinc
	Compounds)
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:	10/13/2014, revision prepared in accordance with 29 CFR 1910.1200
	Appendix D to meet Global Harmonization Standards.
Disclaimer:	Appendix D to meet Global Harmonization Standards. The information contained in this SDS refers only to the specific material designated and does not relate to any process or use with any other materials. This information is based on data believed to be accurate and reliable as of the date hereof. It is intended for use by persons possessing technical knowledge at their own discretion and risk. Because safety standards and regulations are subject to change and because Chemical Dynamics, Inc. has no continuing control over the material, those handling, storing or using the material should satisfy themselves that they have current information regarding the particular way the material is handled, stored or used and that the same is done in accordance with federal, state and local law. No warranty, expressed or implied, and no liability is assumed by Chemical Dynamics, Inc. in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any
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