SAFETY DATA SHEET			
Dyna Green Organics CopperDate Prepared: 10/13/2014Replaces: All Previ			
SECTION 1. IDENTIFICATION			
Product Name:	Dyna Green Organics Copper		
Synonyms:	GRECU		
Use: Agricultural, Liquid Micronutrient Fertilizer		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			
Material	CAS #	EINECS #	%WT
Copper Lignosulfonate	61827-83-6	Not Assigned	Proprietary Blend of materials
Water	7732-18-5	231-791-2	not classified as hazardous

	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. Seek medical attention.
Skin Contact:	If on skin (or hair): Take off all contaminated clothing. Rinse skin with soap and
	water for at least 15 minutes.
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 can 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	Use extinguishing agent most appropriate to surrounding materials. Cool
Media:	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, copper compounds and oxides of sulfur.
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. Prevent run off to storm sewers and ditches leading to
	natural waterways.
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 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 42°F. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.
Incompatibilities:	Water reactive materials, strong oxidizing or reducing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Component	Copper	1 mg/m ³	PEL, OSHA (Cu dust/mist)
Exposure Limits:	Lignosulfonate	1 mg/m ³	TWA, ACGIH (Cu dust/mist)
		100 mg/m ³	IDLH, NIOSH (Cu dust/mist)
		1 mg/m ³	REL, NIOSH (Cu dust/mist)
		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.		
	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 Applicable	Vapor Pressure:	Similar to water
pH:	4.0 to 5.0	Density:	1.16 to 1.17 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. Elevated temperatures may cause containers to rupture.	
Incompatible Materials:	Water reactive materials, strong oxidizing agents or strong reducing agents	
Hazardous	Copper compounds, sulfur oxides and carbon.	
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.	
Chronic Effects:	Not Available	
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:	Do not reuse container. 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. However, copper compounds are generally considered toxic to aquatic organism. Water soluble copper(II) compounds can have LC50 values less than 1 mg/L over 96 hours for Oncorhynchus mykiss and Daphnia Magna	

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. Do not reuse	
	containers. 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:	Yes (Copper Compounds)	

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:	This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act (SARA) and is considered, under applicable definitions, to meet the following categories:	
	Fire – No, Pressure – No, Acute – No, Chronic – No, Reactive – No	
SARA Title III Information:	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:	
Connor Lignosulfonato		
Copper Lignosulfonate	CERCLA RQ (pounds): No RQ is assigned to this generic or broad class, (Copper 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 (N100, Copper 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:	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 patents.