SAFETY DATA SHEET

Dyna Flo Humic Acid Date Prepared: 12/20/2013 Replaces: All Previous

SECTION 1. IDENTIFICATION

Product Name: Dyna Flo Humic Acid
Synonyms: Humic Acid, GPHUMIC

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 #%WTPotassium Humate68514-28-3271-030-1Proprietary blend of materialsWater7732-18-5231-791-2not 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. Seek medical attention.
Skin Contact:	If on skin (or hair): Take off all contaminated clothing. Rinse skin with 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	Moderate irritant of eyes, skin and contaminated tissue
Symptoms:	
Chronic Exposure	Not available
Symptoms:	

SECTION 5. FIRE FIGHTING MEASURES		
Extinguishing	Not Flammable	
Media:	Use extinguishing media appropriate to surrounding fire.	
Specific Hazards:	This product is an aqueous mixture which will not burn. In a fire this material may	
	decompose and produce acrid vapors.	
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: 0, 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:	Side-shielded safety glasses or chemical splash-proof goggles, face shield	
	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. Avoid infiltration of large quantities into drains, surface	
	water, groundwater and soil.	
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	Material has low toxicity; therefore risk of damage is limited in normal handling.	
safe handling:	Normal handling or minor release is not expected to be hazardous.	
	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	Store in a well-ventilated, cool, dry place, away from direct sunlight, sources of	
safe storage:	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. Store or ship undiluted product in polypropylene or	
	fiberglass containers.	
Incompatibilities:	Strong oxidizing agents	

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Component	Potassium Humate	Not Established	PEL, OSHA
Exposure Limits:		Not Established	TWA, ACGIH
		Not Established	IDLH, NIOSH
		Not Established	REL, NIOSH
		Not Established	STEL, NIOSH
Engineering	Provide local exhaust ventilation and wash facilities.		
Controls:			
Personal	Eyes: Side-shielded safety glasses or chemical splash-proof goggles (where		
Protective	splashing is possible)		
Equipment:	Skin: Impervious gloves (rubber, neoprene or nitrile), long sleeved clothing.		
	Chemically resistant apron is recommended.		
	Respiratory: None required for ambient air concentrations (i.e. in the open under		
	normal agronomic conditions).		
	Use NIOSH approved respirator when dusts, mists, or vapors are present.		
General:	Eye wash stations and safety shower required.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance:	Brown liquid		
Odor:	slight	UEL / LEL:	Not Applicable
Odor Threshold:	Not Applicable	Vapor Pressure:	14.2 mmHg @ 20 C
pH:	8.7 to 10	Density:	1.15 g/cm ³
Melting/Freezing Point:	-2°C (28.4°F)	Solubility:	Water
Boiling Point:	104°C (220°F)	Logow:	Not Available
Flash Point:	Not Applicable	Auto Ignition Temp:	Not Applicable
Evaporation Rate:	Normal 0.4 (water)	Decomposition Temp:	Not Available
Flammability (Solid/Gas):	Not Applicable	Viscosity	Not Available

SECTION 10. STABILITY AND REACTIVITY		
Reactivity:	If evaporated to dryness, product may be combustible	
Chemical Stability:	Stable under normal conditions	
Possibility of Hazardous	Hazardous polymerization will not occur.	
Reactions:		
Conditions to avoid:	Avoid exposure to extreme temperatures and contact with incompatible	
	materials. Elevated temperatures may cause containers to rupture.	
Incompatible Materials:	Strong oxidizing agents.	
Hazardous	Typical combustion products.	
Decomposition Products:		

SECTION 11. TOXILOGICAL INFORMATION		
Acute Toxicity:	LD50 oral (rat): > 5,000 mg/kg	
Likely Routes of	Contact with eyes or skin	
Exposure:		
Symptoms and Signs of	Eyes: Minimally irritating to eyes.	
Exposure:	Skin: Slightly irritating to skin.	
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: Not Available	
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.	

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:	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	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:	
Potassium Humate	CERCLA RQ (pounds): No	
CAS No. 68514-28-3	SARA Reporting, 302: No	
	SARA Reporting, 304: No	
	SARA Reporting, 313: No	
Federal Insecticide,		
Fungicide, and	This product is not a pesticide.	
Rodenticide Act		
State Regulations:	Other state regulations may apply. Check individual state requirements.	

SECTION 16. OTHER INFORMATION

Date of Revision:	12/20/2013, 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.