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Dyna Flo Pre Plant Date Prepared: 6/18/2014 Replaces: All Previous

SECTION 1. IDENTIFICATION

Product Name: Dyna Flo Pre Plant

Synonyms: FLOPREPL

Use: Agricultural, A proprietary blend of naturally occurring, non-

pathogenic, non-genetically altered beneficial soil

microorganisms on an inert natural carrier or in a liquid form

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			
Microbial Ingredients	n/a	n/a	1%			
Bacillus subtillis	n/a	n/a	1x10 ⁷ cfu/ml			
Bacillus methylotrophicus	n/a	n/a	1x10 ⁷ cfu/ml			
Bacillus amyloliquefaciens	n/a	n/a	1x10 ⁷ cfu/ml			
Water	7732-18-5	231-791-2	balance			

See product label for guaranteed analysis

SECTION 4. FIRST AID MEASURES				
General:	In case of persisting adverse effects consult a physician. Treat symptomatically.			
Ingestion:	Drink large amounts of water. Do not induce vomiting. Call doctor or poison control center.			
Skin Contact:	If on skin (or hair): Take off all contaminated clothing and wash exposed skin with soap and water. If irritation persists, seek medical attention.			
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	Not available. Bacillus species are non-pathogenic.			
Symptoms:				
Chronic Exposure	Not available			
Symptoms:				

SECTION 5. FIRE FIGHTING MEASURES				
Extinguishing Media:	Not Flammable. Use extinguishing media appropriate to surrounding fire. Cool containers with water spray from a distance to avoid rupture from thermal expansion.			
Specific Hazards:	This product is an aqueous mixture which will not burn.			
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:	Chemical splash-proof goggles, face shield			
	Chemical resistant apron and/or rubber boots may be needed. Clothing and			
	equipment can be washed or laundered for reuse.			
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 and bacterial protocols (See Section 13 of SDS).			

SECTION 7. HANDLING AND STORAGE				
Precautions for safe handling:	Material has low toxicity; therefore risk of damage is limited in normal 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 safe storage:	Store in original container. Store in a well-ventilated, cool, dry place, away from direct sunlight and sources of intense heat (40°F to 110°F). Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.			
Incompatibilities:	Strong acid & alkali, organic solvents and oxidizing agents, excessive heat			

	SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION				
Component	Bacillus Species in	Not Established	PEL, OSHA		
Exposure Limits:	product	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: chemical splash-proof goggles (where splashing or drift 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).				
	Use NIOSH approved respirator when drift, dusts, mists, or vapors are present.				
General:	Eye wash stations and safety shower recommended.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES					
Appearance:	Clear to tan and hazy liquid				
Odor:	Fermentation odor	UEL / LEL:	Not Applicable		
Odor Threshold:	Not Available	Vapor Pressure:	Similar to water		
pH:	4 to 7	Density:	1.0 to 1.01		
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:	Not Available	Decomposition Temp:	Not Available		
Flammability (Solid/Gas):	Not Applicable	Viscosity	Not Available		

SECTION 10. STABILITY AND REACTIVITY				
Reactivity:	Low (water based)			
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 acid & alkali, organic solvents and oxidizing agents			
Hazardous	None.			
Decomposition Products:				

	SECTION 11. TOXILOGICAL INFORMATION
Acute Toxicity:	Oral LD50: Not Available
Likely Routes of	Contact with eyes
Exposure:	
Symptoms and Signs of	Eyes: May cause slight, transient irritation
Exposure:	Skin: May cause slight, transient irritation. Not expected to be absorbed
	through skin.
	Inhalation: At room temperature, exposures to vapors are unlikely due to
	physical properties.
	Ingestion: Amounts ingested, incidental to industrial handling, are not
	expected to cause injury.
	Bacillus species in this product are non-pathogenic
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:	This product is bio-degradable. Dispose of this product by diluting it with water and apply to soil, plants, turf, etc. Bacillus species in product are naturally occurring, non-GMO, non-pathogenic soil microorganisms.			
Other Adverse Effects: Not harmful to ozone layer				
Ecotoxicity:	Not Available			

SECTION 13. DISPOSAL CONSIDERATIONS			
Disposal Instructions:	Disposal Instructions: Agronomical land application at recommended rates or dispose of in		
accordance with local/regional/national bacterial protocols.			

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:
All Components in	CERCLA RQ (pounds): No
product:	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:	6/18/2014, revision prepared in accordance with 29 CFR 1910.1200
	Appendix D to meet Global Harmonization Standards.
Notes:	At temperatures under 65°F (18°C), this product may begin to crystallize.
	Crystals can be dissolved by reheating product.
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
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