

**SAFETY DATA SHEET**

Dyna Bac

Date Prepared: 9/22/2015

Replaces: All Previous

**SECTION 1. IDENTIFICATION**

Product Name: Dyna Bac  
 Synonyms: GPBAC  
 Use: Agricultural, Foliar Spray, Soil Amendment  
 Manufactured For: Chemical Dynamics, Inc.  
 4206 Business Lane  
 Plant City FL 33566  
 Phone: 813-752-4950  
 Chemtrec (Emergency) Phone: 800-424-9300

**SECTION 2. HAZARDS IDENTIFICATION**

	<b>WARNING</b>	Eye Irritation	Cat 2B	Causes eye irritation
<b>Precautionary Statements:</b>	<p><b>Prevention:</b> Wash thoroughly after handling.</p> <p><b>Response:</b> <u>If in eyes:</u> 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.</p>			

**SECTION 3. COMPOSITION**

Material	CAS #	EINECS #	%WT
L. acidophilus fermentation product	n/a	n/a	85.6%
Soluble Ascophyllum nodosum extract	n/a	n/a	3.4 %
Lactic acid	50-21-3	200-018-0	11 %

See product label for guaranteed analysis

**SECTION 4. FIRST AID MEASURES**

<b>General:</b>	In case of persisting adverse effects consult a physician. Treat symptomatically.
<b>Ingestion:</b>	Drink large amounts of water. Do not induce vomiting. Call doctor or poison control center.
<b>Skin Contact:</b>	Take off all contaminated clothing and wash exposed skin with soap and water. If irritation persists, seek medical attention.
<b>Inhalation:</b>	If inhaled: Remove person to fresh air and keep comfortable for breathing. Provide artificial respiration if necessary. Seek medical attention if necessary.
<b>Eye Contact:</b>	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.
<b>Acute Exposure Symptoms:</b>	Irritation, particularly to eyes.
<b>Chronic Exposure Symptoms:</b>	Not available

<b>SECTION 5. FIRE FIGHTING MEASURES</b>	
<b>Extinguishing Media:</b>	Not Flammable. Use extinguishing media appropriate to surrounding fire. Cool containers with water spray from a distance to avoid rupture from thermal expansion.
<b>Specific Hazards:</b>	This product is an aqueous mixture which will not burn. For safety, avoid water spray with full jet to prevent spread of product. Incomplete combustion may produce carbon monoxide or carbon dioxide. Burning may produce noxious and toxic fumes.
<b>Protective Equipment and Precautions for Fire-Fighters:</b>	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.
<b>NFPA Rating:</b>	Health: 1, Fire: 0, Reactivity: 0

<b>SECTION 6. ACCIDENTAL RELEASE MEASURES</b>	
<b>Precautions:</b>	Isolate area. Keep unnecessary personnel away. Avoid splashing or spraying.
<b>Protective Equipment:</b>	Impervious gloves (rubber, neoprene or nitrile), Long sleeved clothing. 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.
<b>Containment:</b>	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.
<b>Clean Up:</b>	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).

<b>SECTION 7. HANDLING AND STORAGE</b>	
<b>Precautions for safe handling:</b>	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.
<b>Conditions for safe storage:</b>	Store in original container. Store in a well-ventilated, cool, dry place, away from direct sunlight and sources of intense. Avoid storing in temperatures above 105°F (41°C) to preserve product efficacy. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.
<b>Incompatibilities:</b>	Strong acid & alkali, organic solvents and oxidizing agents, excessive heat

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
<b>Component Exposure Limits:</b>		Not Established	PEL, OSHA
		Not Established	TWA, ACGIH
		Not Established	IDLH, NIOSH
		Not Established	REL, NIOSH
		Not Established	STEL, NIOSH
<b>Engineering Controls:</b>	Provide local exhaust ventilation and wash facilities.		
<b>Personal Protective Equipment:</b>	<p><u>Eyes</u>: chemical splash-proof goggles (where splashing or drift is possible)</p> <p><u>Skin</u>: Impervious gloves (rubber, neoprene or nitrile), long sleeved clothing. Chemically resistant apron is recommended.</p> <p><u>Respiratory</u>: 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.</p>		
<b>General:</b>	Eye wash stations and safety shower recommended. Handle in accordance with good industrial hygiene and safety practice.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
<b>Appearance:</b>	Dark brown liquid		
<b>Odor:</b>	Seaweed odor	<b>UEL / LEL:</b>	Not Applicable
<b>Odor Threshold:</b>	Not Available	<b>Vapor Pressure:</b>	Similar to water
<b>pH:</b>	3.2	<b>Density:</b>	1.14
<b>Melting/Freezing Point:</b>	<0°C (32°F)	<b>Solubility:</b>	Water
<b>Boiling Point:</b>	>100°C (212°F)	<b>Log<sub>ow</sub>:</b>	Not Available
<b>Flash Point:</b>	Not Applicable	<b>Auto Ignition Temp:</b>	Not Applicable
<b>Evaporation Rate:</b>	Not Available	<b>Decomposition Temp:</b>	Not Available
<b>Flammability (Solid/Gas):</b>	Not Applicable	<b>Viscosity</b>	Not Available

SECTION 10. STABILITY AND REACTIVITY	
<b>Reactivity:</b>	Low (water based)
<b>Chemical Stability:</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	Temperatures above 105° F (41° C) to preserve product efficacy. Avoid exposure to extreme temperatures and contact with incompatible materials. Highly elevated temperatures may cause containers to rupture.
<b>Incompatible Materials:</b>	Strong alkaline substances, water reactive materials
<b>Hazardous Decomposition Products:</b>	None.

<b>SECTION 11. TOXICOLOGICAL INFORMATION</b>	
<b>Acute Toxicity:</b>	Oral LD50 (rat): >33,909 mg/kg
<b>Likely Routes of Exposure:</b>	Contact with eyes
<b>Symptoms and Signs of Exposure:</b>	<u>Eyes:</u> Irritating <u>Skin:</u> May cause slight, transient irritation. Not expected to be absorbed through skin. <u>Inhalation:</u> At room temperature, exposures to vapors are unlikely due to physical properties. <u>Ingestion:</u> Amounts ingested, incidental to industrial handling, are not expected to cause injury. May cause gastrointestinal irritation.
<b>Chronic Effects:</b>	Not Available
<b>Carcinogenic:</b>	None of this product's components are listed by IARC, ACGIH, OSHA, NIOSH or NTP as carcinogenic.
<b>Mutagenicity:</b>	Not Available
<b>Reproductive Toxicity:</b>	Not Available

<b>SECTION 12. ECOLOGICAL INFORMATION</b>	
<b>Ecotoxicity:</b>	This product is bio-degradable. Dispose of this product by diluting it with water and apply to soil, plants, turf, etc. at agronomical rates. Do not allow undiluted product to reach ground water or water ways.
<b>Other Adverse Effects:</b>	Not harmful to ozone layer
<b>Ecotoxicity:</b>	Not Available

<b>SECTION 13. DISPOSAL CONSIDERATIONS</b>	
<b>Disposal Instructions:</b>	Agronomical land application at recommended rates or dispose of in accordance with local/regional/national bacterial protocols. Containers may be triple rinsed and offered for recycling.

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

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

<b>SECTION 16. OTHER INFORMATION</b>	
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Date of Revision:	9/22/2015, revision prepared in accordance with 29 CFR 1910.1200 Appendix D to meet Global Harmonization Standards.
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