

## SAFETY DATA SHEET

Dyna Boron 10%

Date Prepared: 8/18/2014

Replaces: All Previous

### SECTION 1. IDENTIFICATION

Product Name: Dyna Boron 10%  
Synonyms: GOLDBOR10  
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

Material	CAS #	EINECS #	%WT
Alkoxy Borate Esters *	94095-04-2	302-207-4	Proprietary blend of
Water	7732-18-5	231-791-2	materials not classified as hazardous

\* = complex reaction products

See product label for guaranteed analysis.

### SECTION 4. FIRST AID MEASURES

<b>General:</b>	No specific acute or chronic health effects known. 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>	If on skin (or hair): 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. May cause respiratory tract irritation. 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>	May cause slight, transient irritation of eyes and skin. Ingestion may irritate gastrointestinal tract.
<b>Chronic Exposure Symptoms:</b>	No specific chronic health effects known.

<b>SECTION 5. FIRE FIGHTING MEASURES</b>	
<b>Extinguishing Media:</b>	This product is non-flammable. Use appropriate media for surrounding fire. Cool containers with water spray to avoid rupture due to thermal expansion.
<b>Specific Hazards:</b>	This product is an aqueous mixture and is not flammable. If material is exposed to prolonged heat in a fire, material may release ammonia, oxides of carbon, nitrogen, and boron. For safety, avoid water spray with full jet to prevent spread of product.
<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. Do not touch or walk through spilled material.
<b>Protective Equipment:</b>	Impervious gloves (rubber, neoprene or nitrile), chemical resistant suit, Chemical splash-proof goggles, face shield. Chemical resistant apron and/or rubber boots may be needed. Use NIOSH approved respirator if vapors or mists exceed applicable concentration limits.
<b>Containment:</b>	Stop flow of material if safe to do so. Dike area with diatomaceous earth or sand and maximize recovery. Prevent spillage from entering drains or open bodies of water. Any release to the environment may be subject to reporting requirements.
<b>Clean Up:</b>	Pump into a suitable tank or absorb with diatomaceous earth or sand. Recover and dispose of residue. 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).

<b>SECTION 7. HANDLING AND STORAGE</b>	
<b>Precautions for safe handling:</b>	Open containers carefully. 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 a well-ventilated, cool, dry place, away from sources of intense heat, or where freezing is possible. Keep away from incompatible materials. Large storage tanks should have secondary containment and electrically grounded. Polyethylene, polypropylene and stainless steel are acceptable materials for storage containers. Ensure that all pumps, valves, meters, gaskets, etc., are of compatible materials. Keep containers tightly closed when not in use. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.
<b>Incompatibilities:</b>	This product can react with strong reducing or oxidizing agents. May react violently with acids and with (some) bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
<b>Component Exposure Limits:</b>	Alkoxy Borate Esters	Not Established	PEL, OSHA
		Not Established	STEL, OSHA
		Not Established	TLV, ACGIH
		Not Established	IDLH, NIOSH
		Not Established	REL, NIOSH
		Not Established	STEL, NIOSH
<b>Engineering Controls:</b>	Provide local exhaust ventilation and wash facilities. Eye wash stations and safety showers recommended.		
<b>Personal Protective Equipment:</b>	<p><u>Eyes:</u> Chemical splash-proof goggles and face shield</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) not exceeding occupational exposure limits. Respiratory protection may be required in the event of a spill in an enclosed area. Wear NIOSH approved respiratory protective equipment when vapor or mists may exist as well as a chemical suit.</p>		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES			
<b>Appearance:</b>	Clear, thick blue/green liquid		
<b>Odor:</b>	Slight amine odor	<b>UEL / LEL:</b>	Not Applicable
<b>Odor Threshold:</b>	Not Available	<b>Vapor Pressure:</b>	Not Available
<b>pH:</b>	7.5 to 8.5	<b>Density:</b>	1.32 to 1.35 g/cm <sup>3</sup>
<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>	Similar to water	<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>	Stable.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	High temperatures. Heating can evolve irritating and toxic nitrogen oxides and ammonia.
<b>Incompatible Materials:</b>	This product can react with strong reducing or oxidizing agents. May react violently with acids and with (some) bases.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, oxides of nitrogen, ammonia and oxides of boron

SECTION 11. TOXICOLOGICAL INFORMATION	
<b>Acute Toxicity:</b>	Alkoxy borate esters: LD50 oral (rat): > 2000 mg/kg
<b>Likely Routes of Exposure:</b>	Inhalation of mist, eye, and skin contact.
<b>Symptoms and Signs of Exposure:</b>	<u>Eyes:</u> May cause temporary eye irritation. May cause redness and pain. <u>Skin:</u> Low skin irritation potential. May cause slight skin irritation. <u>Inhalation:</u> Repeated or prolonged inhalation of mists may lead to respiratory irritation. <u>Ingestion:</u> May cause digestive tract irritation, with accompanying nausea, vomiting and diarrhea.
<b>Chronic Effects:</b>	No specific chronic health effects known.
<b>Carcinogenic:</b>	None of this product's components are listed by ACGIH, OSHA, IARC, NIOSH, NTP or California Prop 65 as carcinogenic.
<b>Mutagenicity:</b>	Not Classified
<b>Reproductive Toxicity:</b>	Not Classified

SECTION 12. ECOLOGICAL INFORMATION	
<b>Ecotoxicity:</b>	May be harmful to fish, livestock and wildlife. Non-persistent and non-cumulative when properly applied agronomically.
<b>Other Adverse Effects:</b>	Not harmful to ozone layer
<b>Ecotoxicity:</b>	Alkoxy Borate Esters: Not Available

<b>SECTION 13. DISPOSAL CONSIDERATIONS</b>	
<b>General Information:</b>	None
<b>Disposal Instructions:</b>	Agronomical land application at recommended rates or dispose of in accordance with local/regional/national regulations. Container contents should be completely used and the containers rinsed prior to discard. Dispose of in accordance with product characteristics at time of disposal. 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:
Alkoxy Borate Esters, CAS No. 94095-04-2	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.

**SECTION 16. OTHER INFORMATION**

Date of Revision:	8/18/2014, 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.