SAFETY DATA SHEET				
Dyna Zone 15-0-10-6SDate Prepared: 5/30/2014Replaces: All Previous			places: All Previous	
		SECTION 1. IDENTIFICATI	ON	
Product Name:		Dyna Zone 15-0-10-6S		
Synonyms:		ZON15010		
Use:		Agricultural, Liquid Mic	ronutrient Fertilizer	
Manufacturer:		Chemical Dynamics, Inc	C.	
		4206 Business Lane		
		Plant City FL 33566		
Phone:		813-752-4950		
Chemtrec (Emerger	icy) Phone:	800-424-9300		
	SEC	TION 2. HAZARDS IDENTIF	ICATION	
Pictogram	Signal Word	Hazard Class	Hazard Category	Hazard Statement
	WARNING	Skin Irritation Eye Irritation	Cat 2 Cat 2A	Causes skin irritation Causes serious eye irritation
Precautionary Statements:	<ul> <li>Prevention: Wash thoroughly after handling. Wear protective gloves, eye protection, and face protection.</li> <li>Response: If on skin (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention.</li> <li>If in eyes: 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.</li> <li>Ingestion: Rinse mouth. Drink large amounts of water. Do NOT induce vomiting. Call doctor or poison control.</li> <li>Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention for any breathing difficulty.</li> <li>Storage: Keep container tightly closed. Store between 30°F and 120°F.</li> <li>Disposal: Dispose of contents/containers in accordance with local/regional/national regulations (See Section 13 of SDS). Containers may be triple rinsed and offered for recycling.</li> </ul>			

SECTION 3. COMPOSITION			
Material	CAS #	EINECS #	%WT
Potassium Thiosulfate	10294-66-3	233-666-9	20%
Triazone	7098-14-8	230-406-5	Proprietary Blend of
Urea	57-13-6	200-315-5	Materials Not Classified as
Water	7732-18-5	231-791-2	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. Drink large amounts of water. Never give anything by mouth to an
	unconscious person. Do NOT induce vomiting. Obtain medical attention.
Skin Contact:	Remove contaminated clothing. Wash with soap and water. Wash contaminated
	clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Get
	medical attention for any breathing difficulty.
Eye Contact:	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and
	easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Acute Exposure	Irritation to respiratory tract. Irritation or burning sensation eyes. Prolonged or
Symptoms:	repeated contact with skin may cause skin irritation. Ingestion of product solution
	may cause irritation of the gastrointestinal tract to include nausea, vomiting and
	diarrhea. Potassium thiosulfate is considered to have a low toxicity to humans.
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. In a fire, this material may decompose and produce ammonia, sulfur, sulfur oxides and oxides of nitrogen, carbon and potassium.	
Protective Equipment and Precautions for Fire-Fighters:	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.	
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, 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. Keep out of "waters of the U.S." because of potential aquatic toxicity.
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 where freezing is possible. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store tote and smaller containers out of direct sunlight at moderate temperatures. Keep containers tightly closed when not in use. Do not let product go below 30°F or above 105°F. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Product solutions have been successfully stored in 304 stainless steel, fiberglass, polypropylene and HD polyethylene. Consult with tank manufacturers to confirm whether a specific resin is acceptable product storage.
Incompatibilities:	This product is not compatible with copper, zinc, lead, mercury or their alloys (i.e. bronze, brass, galvanized metals, etc.). These materials of construction should not be used in piping, handling systems or storage containers for this product. Strong oxidizers such as nitrates, nitrites or chlorates can cause explosive mixtures if heated to dryness. Acids will cause the release of sulfur dioxide, a severe respiratory hazard.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Component	Urea	Not Established	PEL, OSHA
Exposure Limits:		10 mg/m <sup>3</sup>	TLV, ACGIH
		Not Established	IDLH, NIOSH
		Not Established	REL, NIOSH
		Not Established	STEL, NIOSH
	Potassium	Not Established	PEL, OSHA
	Thiosulfate	Not Established	TWA, ACGIH
	and Triazone	Not Established	IDLH, NIOSH
		Not Established	REL, NIOSH
		Not Established	STEL, NIOSH
Engineering	Provide local exhaust ventilation and wash facilities.		
Controls:			
Personal	Eves: chemical splash-proof goggles and face shield		
Protective	Skin: Impervious gloves (rubber, neoprene or nitrile), long sleeved clothing and		
Equipment:	Chemically resistant apron.		
	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 recommended. Good industrial hygiene		
	practices should be followed, such as, washing thoroughly after handling and		
	before eating or drinking	ng.	

	SECTION 9. PHYSICAL AND	CHEMICAL PROPERTIES	
Appearance:	Clear, light blue to colorle	ess liquid	
Odor:	Amine odor	UEL / LEL:	Not Applicable
Odor Threshold:	Not Available	Vapor Pressure:	Similar to water
pH:	9.6 to 10.5	Density:	1.30 to 1.32 g/cm <sup>3</sup>
Melting/Freezing Point:	< 0°C (32°F)	Solubility:	Water
Boiling Point:	>100°C (212°F)	Log <sub>ow</sub> :	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	Y AND REACTIVITY	
Reactivity:	Stable		
Chemical Stability:	Stable under normal cond	itions	
Possibility of Hazardous	Hazardous polymerization	will not occur.	
Reactions:			
Conditions to avoid:	Heat, strong oxidizers and	acids or acidic materials.	Elevated temperatures
	may cause containers to r	upture. Do not allow produ	uct to go above 105°F.
Incompatible Materials:	Strong oxidizers such as n	itrates, nitrites or chlorates	s can cause explosive
	mixtures if heated to dryn	ess. Avoid contact with aci	ds or acid materials.
	Acids will cause the releas	e of sulfur dioxide, a sever	e respiratory hazard.
	Acids can also precipitate	elemental sulfur. The prod	uct DynaZone <sup>®</sup> is not
	compatible with copper, z	inc, lead, mercury or their	alloys (i.e. bronze,
	brass, galvanized metals, etc.). These materials of construction should not		
	be used in piping, handling systems or storage containers for this product.		
Hazardous	Heating this product will evolve ammonia. Heating to dryness will cause the		
<b>Decomposition Products:</b>	production of ammonia, potassium sulfate, sulfur, oxides of carbon and		
	sulfur. Ammonia (16-25%) may form flammable mixtures with air.		
	SECTION 11. TOXILOGI	CAL INFORMATION	
Acute Toxicity:	LD50 oral (rat): > 2000 m	g/kg, all components	
Likely Routes of	Inhalation, ingestion or skin absorption		
Exposure:			
Symptoms and Signs of		es by product mist or soluti	ion may cause irritation
Exposure:	or a burning sensation.		
	Skin: Prolonged or repeated	ed contact with product mi	ist or solution may
	cause skin irritation. Abso	rption is unlikely to occur.	
	Ingestion: Ingestion of pro	oduct solution may cause ir	ritation of the
	gastrointestinal tract to in	clude nausea, vomiting an	d diarrhea. Potassium
	thiosulfate is considered t	o have a low toxicity to hu	mans.
		roduct mist may cause irrit	tation of the nose,
	throat and respiratory tract.		
Chronic Effects:	None known		
Carcinogenetic:	-	nponents are listed by ACC	GIH, OSHA, IARC, NIOSH
	or NTP as carcinogenic.		
Mutagenicity:	Not Available		
matagementy.	Not Available		

SECTION 12. ECOLOGICAL INFORMATION		
Ecotoxicity:	This product is not bioaccumulative.	
<b>Other Adverse Effects:</b>	Not harmful to ozone layer	
Ecotoxicity:	Potassium Thiosulfate:	
	Static acute 96 hour-LC50 for sheepshead minnow is > 1,000 mg/L.	
	Static acute 96 hour-LC50 for mysid shrimp is 89 mg/L.	
	Urea:	
	LC50 – Poecilia retiulata (guppy): 17,500 mg/L for 96 hrs	
	Triazone: Not Available	

SECTION 13. DISPOSAL CONSIDERATIONS		
General Information: None		
Disposal Instructions:	<b>Disposal Instructions:</b> Agronomical land application at recommended rates or dispose of in accordance with local/regional/national regulations.	

SECTION 14. TRANSPORT INFORMATION			
This material is not hazard	This material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation		
Proper Shipping Name:	Urea Triazone solution (Not regulated by DOT)		
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 – Yes, Chronic – No, Reactive – No
SARA Title III Information:	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:
Triazone	CERCLA RQ (pounds): No
CAS No. 31138-65-6,	SARA Reporting, 302: No
Urea	SARA Reporting, 304: No
CAS No. 57-13-6 and Potassium Thiosulfate CAS No. 10294-66-3	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:	5/30/2014, 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.