Safety Data Sheet – 15 Sections

SECTION 1- Identifi	cation			
Product Identifier/Name				
KeyPlex 1000 DP				
Product Use				
Plant Nutrition				
Product Code: N/A	Product Code: N/A			
Manufacturer	Details of the supplier of the safety sheet			
KeyPlex Manufacturing	N/A			
Street Address				
2239 Commerce Ct.				
City	Province			
Bowling Green	Florida			
Postal Code	Emergency Telephone			
33834	ChemTrac 1-800-424-9300			
Telephone (General)	Recommended uses: To prevent and correct micronutrient deficiencies when used as			
(407)682-6500	directed. Refer to the label.			

United States (US): According to OSHA 29 C	FR 1910.1200 HCS
Classification of the substances or mixtures	S: OSHA HCS 2012
Label elements:	
Hazard statements:	 KeyPlex 1000 DP is a low pH (acidic) water soluble liquid. KeyPlex 1000 DP can corrode metals after prolonged exposure, always use acid resistant, corrosion resistant equipment when using or handling KeyPlex 1000 DP.
Precautionary statements:	 For use in Agricultural production, to alleviate micronutrient deficiencies. Use as directed on the label. Follow all local and federal regulations regarding agrochemical use.

 The product should be stored at ambient temperature. The product should not be stored at temperatures below 5 degrees centigrade or above 50 degrees centigrade. 	Response: N/A	
• Reep out of direct sunlight.	Storage/Disposal:	 facility. Ventilation system should be corrosive resistant The product should be stored at ambient temperature. The product should not be stored at temperatures below 5 degrees centigrade or

Canada	
According to WHMIS	
Classification of the substance or mixture: WHMIS	
abel elements: WHMIS	
Other hazards: WHMIS	
Other information: N/A	

SECTION 3 – Composition	/ Informatio	on on Ingredie	ents	
Chemical Name	% (Weight)	CASS Number	LD 50 of Ingredient (specify species and route)	LC 50 of Ingredient (specify species)
Magnesium Sulfate Heptahydrate	14.0-17.0	10034-99-8	N/A	N/A
Manganese Sulfate Monohydrate	2.1-2.6	10034-96-5	N/A	N/A
Iron Sulfate Heptahydrate	13.5-16.5	7782-63-0	N/A	N/A
Zinc Sulfate Monohydrate	1.9-2.3	7446-19-7	N/A	N/A
Sodium Molybdate Dihydrate	0.007-0.009	10102-40-6	N/A	N/A
Disodium Octaborate Tetrahydrate	0.7-0.9	12280-03-4	N/A	N/A
Sodium Glucoheptonate	57.0-69.0	31138-65-5	N/A	N/A
Humic Acid	0.25-0.30	308066-67-3	N/A	N/A
Fulvic Acid	0.25-0.30	308066-67-3	N/A	N/A
Yeast Extract (Containing Alpha- Keto Acids)	0.057-0.069	Mixture	N/A	N/A

SECTION 4: First-Aid Measures	
Inhalation:	 Move victim to fresh air. If person is NOT Breathing Call Emergency Services, perform artificial respiration if necessary. Call Physician if symptoms persist.
Skin:	 Remove all contaminated clothing. Wash skin with soap and clean water thoroughly for at least 20 minutes. Seek Medical attention if irritation develops and persists.
Eye:	 Flush eyes with clean running water for a minimum of 15-20 minutes. Make certain the water rinses the eye by periodically lifting the lower and upper lids for thorough rinsing. Get medical attention if irritation persists.
Ingestion:	 Call a physician. Have person sip a glass of clean water to rinse mouth and spit. Do Not Induce Vomiting unless instructed by a physician. Contact physician if person is unconscious do not give anything my mouth.
Most important symptoms and effects. Both acute and delayed:	Upset Stomach.Vomiting.
Indication of any immediate medical attention and special treatment needed:	Notes to Physician.

SECTION 5 – Fire-Fighting M	easures
Suitable Extinguishing Media:	Water
Unsuitable Extinguishing Media:	• N/A
Flash Point:	• N/A
Upper Flammable Limit:	• N/A
Auto Ignition:	• N/A
Method Used:	• N/A
Special hazards arising from	the substance or mixture:
Unusual fire and Exploitation:	• N/A
Hazards:	• N/A
Hazardous Combustion Products:	 If this product is heated to an anhydrous state it will omit Sulfur Dioxide vapors which is hazardous if inhaled.
	Exposure to high heat can emit toxic vapors.
Advice for firefighters:	KeyPlex 1000 DP is not a flammable liquid and is very water-soluble.
	 In case of fire, use sufficient water to dilute the product to avoid production of Sulfur Dioxide.

SECTION 6 – Accidental Release	Measures
Personal Precautions:	 Always wear acid resistant protective clothing when handling this product. Always wear Gloves and Eye Protection. Handle in well ventilated area. Wear respiratory equipment.
Environmental Precautions:	Take all spill control measures necessary to avoid contamination of ground water and storm run-off drains.
Methods and Material for containment and cleaning up:	 Wear acid resistant, protective clothing, respiratory equipment and eye protection. Isolate the spill area and restrict access to non-essential personnel. Stop the flow of the material at the source.
	 Spill on Non-Absorbent Surfaces: Use Dry absorbent material such as Towels or Diatomaceous Earth. Use sufficient quantity to fully contain and absorb the spilt liquid. Collect the contaminated material and place in a secure ventilated vessel. Dispose of in compliance to local laws and regulations. Spill on Soil: Remove the contaminated soil to a depth where no residue is present, place contaminated soil in a secure ventilated vessel and dispose of in compliance to local laws and regulations.

Precautions for safe handling:	 Always wear acid resistant protective clothing, gloves and eye protection before you handle the material.
Conditions for safe storage:	 Store in a well ventilated and secure storage facility. Ventilation system should be corrosive resistant. The product should be stored at ambient temperature. The product should not be stored at temperatures below 5 degrees centigrade or above 50 degrees centigrade. Keep out of direct sunlight.
Incompatible Materials or Ignition Sources:	 The product should not come into contact with Methomyl (S-methyl-N-[(methycarbamoyl)oxy] thioacetimidate. Will cause evolution of Hydrogen Sulfide. Use a jar compatibility test with unfamiliar mixtures and phosphorus containing products.

SECTIO	SECTION 8 – Exposure Controls / Personal Protection					
Control Parameters						
		Ex	kposure Limits / Guid	elines		
	Result	ACGIH	Canada Ontario	Canada Quebec	China	NIOSH
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Ехро	sure Limits/Guideline	es (Cont.)		
			Result	OSHA		
			N/A	N/A		
			N/A	N/A		

Key to abbreviations:

ACGIH= American Conference of Governmental Industrial Hygiene

TWA= Time-Weighted Averages are based on 8d/day exposures

NIOSH= National Institute of Occupational Safety and Health

STEL= Short Term Exposure Limits are based on 15-minute exposures

OSHA= Occupational Safety and Health Administration

STEV = Short Term Exposure Value

MSHA= Mine Safety and Health Administration

Exposure Controls				
Engineering:	Use Corrosion Resistant Ventilation System in Storage facility, and equipment used in handling this product.			
Measures/Controls:	N/A			
Personal Protective Equipment Pictograms:				
Respiratory:	Handle this product wearing a facemask or in a well ventilated area.			
Eye/Face:	Handle this product wearing eye protection glasses, goggles or a face shield.			
Hands:	When handling this product wear appropriate work gloves.			
Skin/Body:	When handling this product wear long sleeve shirt and pants.			
General Industrial Hygiene:	When handling chemicals, follow all local and federal regulations.			

Considerations:	N/A
Environmental Exposure:	N/A
Controls:	N/A

	and Chemical Prop		
		al Description	
Physical Form	Liquid	Appearance/Description	Dark Opaque with sweet smell
Color	Dark Opaque	N/A	N/A
Taste	N/A	N/A	N/A
Particular Size	N/A	N/A	N/A
Odor Threshold	Data lacking	Physical and Chemical Properties	Data lacking
	Gener	al Properties	
Boiling Point	100 degrees centigrade	Melting Point	N/A
Decomposition Temperature	N/A	Heat of Decomposition	N/A
рН	4.3-4.7	Specific Gravity/Relative Density	1.29-1.33
Density	10.8-11.2 lbs/gal	Bulk Density	N/A
Water Solubility	Soluble	Solvent Solubility	N/A
Viscosity	N/A	Explosive Properties	Classification criteria not met
Oxidizing Properties:	N/A	N/A	N/A
	V	olatility	
Vapor Pressure	N/A	Vapor Density	N/A
Evaporation Rate	N/A		
VOC (Vol.)	N/A	Volatiles (Wt.)	N/A
Volatiles (Vol.)	N/A		
	Fla	mmability	
Flash Point	N/A	UEL	N/A
LEL	N/A	Autoignition	N/A
Self-Accelerating Decomposition Temperature (SADT)	N/A	Heat of Combustion	N/A
Burning Time	N/A	Flame Duration	N/A

Flame Height	N/A	Flame Extension	N/A		
Ignition Distance	N/A	Flammability (solid, gas)	N/A		
	Environmental				
Half-Life	N/A	Octano/Water Partition Coefficient	N/A		
Coefficient of water/oil distribution	N/A	Bioaccumulation Factor	N/A		
Bioconcentration Factor	N/A	Biochemical Oxygen Demand BOD/BOD5	N/A		
Chemical Oxygen Demand	N/A	Persistence	N/A		
Degradation	N/A		N/A		

SECTION 10 – Stability and Reactivity		
Reactivity:	Yes	
Chemical Stability:	Under normal temperatures and atmospheric pressure this product is stable.	
Possibility of hazardous reactions:	Yes	
Conditions to avoid:	 Avoid mixing with Methomyl (S-methyl-N-[(methycarbamoyl)oxy] thioacetimidate. Use a jar compatibility test with unfamiliar mixtures and phosphorus containing products. 	
Incompatible materials:	 Avoid mixing with Methomyl (S-methyl-N-[(methycarbamoyl)oxy] thioacetimidate. Use a jar compatibility test with unfamiliar mixtures and phosphorus containing products. 	
Hazardous decomposition materials:	Sulfur Dioxide (SO ₂) Vapors	

SECTION 11 – Toxilogical Information

Information on toxicological effects

Component Name	CAS	Data
KeyPlex 1000 DP	Mixture	Acute Toxicity Oral (ATE): Category III Irritation: Dermal (ATE): Category IV Eye (ATE): Category III Reproductive: N/A

GHS Properties	OSHA HCS 2012 • Classification criteria not met
Acute toxicity	N/A
Aspiration Hazard	N/A
Carcinogenicity	N/A
Germ Cell Mutagenicity	N/A

Respiratory sensitization	N/A
Serious eye damage/Irritation	N/A
Skin corrosion/Irritation	N/A
Skin sensitization	N/A
STOT-RE	N/A
STOT-SE	N/A
Toxicity for Reproduction	N/A

Target Organs	Target Organs		
Route(s) of entry	Route(s) of entry/exposure:		
Skin:	Wear acid resistant work gloves and clothing.	Acute (Immediate) –Possible redness and	
	Avoid Skin Contact.	localized irritation.	
		Chronic (Delayed) – N/A	
Eyes:	Wear goggles or glasses with side shields,	Acute (Immediate) - Burning Sensation,	
	If not available wear face shield. Avoid	Redness	
	Splashes.	Chronic (Delayed) - N/A	
Oral (Ingestion):	Do not swallow or taste.	Acute (Immediate) - Nausea, Vomiting	
		Chronic (Delayed) - N/A	

SECTION 12: Ecological Information		
Toxicity:	Not toxic to Bees	
Persistence and Degradability:	N/A	
Bioaccumulative potential:	None	
Mobility in Soil:	Mobile in Soil	
Other adverse effects:	N/A	
Other information:	N/A	

SECTION 13: Disposal Considerations		
Waste treatmen	t methods	
Product waste:	Dispose of following Local and Federal Laws.	
Packaging waste:	Rinse with water, recycle if possible.	
	Follow local and Federal Laws and regulations.	

		Inventory		
Component	CAS	Canada DSL	Canada NDSL	TSCA
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

• Acute, Fire

SECTION 14: Regulatory Information

Safety, health and environmental regulations/legislation specific

for the substance or mixture SARA Hazard Classifications:

State Right To Know				
Component	CAS	MA	NJ	PA
N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A

SECTION 15: Other Information		
Last Revision Date:	N/A	
Preparation Date:	June 23, 2015	
Disclaimer/Statement of Liability:	Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness of a particular product expressed or implied extends to the use of this product contrary to label instructions or under abnormal conditions not reasonably foreseeable by the seller, and buyer assumes the risk of any such use.	