Safety Data Sheet - 15 Sections

SECTION 1 - IDENT	TFICATION			
Product Identifier / Na	me			
KeyPlex 250 DP				
Product Use				
Plant Nutrition				
Product Code: N/A				
Manufacturer		Details of the supplier of the safety sheet		
KeyPlex Manufacturing	<u> </u>	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 p	prevent and correct micronutrient deficiencies when used as directed.		
407-682-6500	Refer to the label.			
SECTION 2 - Hazar	d Identification			
United States (US): Acc	cording to OSHA 29 CFR 19	10.1200 HCS		
Classification of the su	bstances or mixtures: OSH	IA HCS 2012		
Label elements:	^	^		
Hazard statements:	• KevP	lex 250 DP is a low PH(acidic) water		
riazara statements.		oluble liquid.		
		KeyPlex 250 DP can corrode metals after		
		-		
	prolonged exposure, always use acid resistant, corrosion resistant equipment when using or handling KeyPlex 250 DP.			
Precautionary Stateme		se in Agricultural production, to alleviate		
Trecautional y Stateme		onutrient deficiencies.		
		as directed on the label.		
		w all local and federal regulations regarding		
Prevention:		agrochemical use. Keep out of reach of children.		
CvCiidoii.	- Keep	out of reach of Children.		

Response:	• N/A
Storage / Disposal:	Store in a well ventilated and secure storage facility
	Ventilation system should be corrosive resistant.
	The product should not be stored at temperatures below
	5° C or above 50° C.
	Keep out of direct sunlight.
Other Hazards:	• OSHA HCS 2012

Canada

According to WHMIS

Classification of the substance or mixture: WHMIS

Label elements: WHMIS **Other hazards:** WHMIS

Other information: N/A

Other information. N/A						
SECTION 3 - Composition / Information on Ingredients						
Chemical Name	% (weight)	CAS No.	LD ₅₀ Ingredient (specify species and route)	LD ₅₀ Ingredient (specify species)		
Magnesium Sulfate Heptahydrate	22.0-29.0	10034-99-8	N/A	N/A		
Manganese Sulfate Monohydrate	3.2-4.0	10034-96-5	N/A	N/A		
Iron Sulfate Heptahydrate	9.0-11.0	7782-63-0	N/A	N/A		
Zinc Sulfate monohydrate	2.5-3.1	7446-19-7	N/A	N/A		
Sodium Molybdate Dehydrate	0.007-0.009	10102-40-6	N/A	N/A		
Disodium Octaborate Tetrahydrate	0.09-0.11	12280-03-4	N/A	N/A		
Sodium Glucoheptonate	0-59	31138-65-5	N/A	N/A		
Humic Acid	2.25-2.85	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 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 of 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 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 by mouth.		
Most important symptoms and effects.		Upset stomach		
Both acute and delayed:		Vomiting		
Indication of any immediate medical atte	ention	Notes to physician		
and special treatment needed:				
SECTION 5 - Fire - Fighting Meas	ures			
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	· •	luct is heated to an anhydrous state it will omit Sulfur		
Dioxide va		pors which is hazardous if inhaled		
	•	to high heat can emit toxic vapors		
• KeyPlex 250 DP is not a flammable liquid and is very water-soluble.				

Advice for firefighters	In case of fire, use sufficient water to dilute the product to avoid
havice for in engineers	production of Sulfur Dioxide.
SECTION 6 - Accidental Release	•
Personal Precautions:	
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	Wear acid resistant, protective clothing, respiratory equipment and
and cleaning up:	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.
Methods and Material for containment	Dispose of in compliance to local laws and regulations.
and cleaning up:	
	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.
SECTION 7 - Handling and Stora	ge
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.
	<u> </u>

Incompatible Materials for	• The product should not come into contact with Methomyl (S-methyl-N-[(
ignition Sources:	-[(methycarbamoyl)oxy] thioacetimidate). Will cause evolution of
	Hydrogen Sulfide
	• Use a jar compatibility test with unfamiliar mixtures and phosphorus
	containing products.

SECTION 8 - Exposure Controls / Personal Protection

Control Parameters

	Exposure Limits/ Guidelines					
	Result ACGIH Canada Ontario Canada Quebec China NIOSH					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
	-		Result	OSHA	-	
			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		

SECTION 9 - Physical and Chemical Properties Information on Physical and Chemical Properties

Material Description

		Material D	escriptio	<u> </u>			
Physical Form	Liq	uid Appearance/D		ance/Description	Opaque with sweet smell		
Color	Dark E	k Brown		N/A	N/A		
Taste	N/	A N		N/A	N/A		
Particular Size	N/A	N/A	N/A		N/A	N/A	
Odor threshold	Data lacking	Physical and Properties	d Chemical	Data lacking			
	•	General Pr	operties	•			
Boiling Point:		100° C.		Melting Point		N/A	
Decomposition Temp	erature:	N/A		Heat of Decomposit	ion	N/A	
pH:		4.8-5.2		Specific, Gravity, Re	lative,	1.32-1.36	
Density		11.0-11.4 lbs/g	 al	Bulk Density		N/A	
Water Solubility:		Soluble		Solvent Solubility		N/A	
Continuation of Section	on #9	-					
Viscosity:		N/A		Explosive Properties	5	Classification criteria	
						not met	
Oxidizing Properties:		N/A		N/A		N/A	
		Volatility		•		•	
Vapor Pressure		N/A		Vapor Density		N/A	
Evaporation Rate		N/A					
VOC (Vol.)		N/A		Volatiles (Wt.)		N/A	
Volatiles (Vol.)		N/A					
		Flammabil	lity				
Flash Point		N/A		UEL		N/A	
LEL		N/A		Autoignition		N/A	
Self Accelerating		N/A		Heat of Combustion		N/A	
Decomposition Temp	erature (SADT)	N/A				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	
		Environme	ental				
Half-life		N/A		Octano/Water Partition		N/A	
c (C)				Coefficient			
Coefficient of water/oil distribution		N/A		Bioaccumulation Fac	ctor	N/A	

Bioconcentration Factor	N/A	Biochemical Oxygen	N/A
		Demand BOD/Bod5	
Chemical Oxygen Demand	N/A	Persistence	N/A
Degradation	N/A		

SECTION 10 - Stab	ility 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 at high temperatures

SECTION 11 - Toxicology Information

Information on toxicological effects

Component Name	CAS	Data
Keyplex 250 DP	Mixture	Acute Toxicity
		Oral (ATE): N/A
		Irritation: N/A
		Dermal (ATE): N/A
		Eye (ATE): N/A
		Reproductive: N/A
CHS Properties		OSHA HCA 2012 • Classification Criteria not met
Acute toxicity		N/A
Aspiration Hazard		N/A
Carcinogenicity		N/A
Germ Cell Mutagenicit	у	N/A
Respiratory sensitizati	on	N/A
Serious eye damage/ir	ritation	N/A
Skin corrosion/Irritation		N/A
Skin sensitization		N/A
STOT-RE		N/A
Toxicity for Reproduction		N/A

Target Organs							
Route[s] of entry ex	posure						
skin:	Wear acid resistant work gloves and clothing.		Acute(Immediate)-Possible redness and				
	Avoid skin contact.		localize irritation Chronic(Delayed) - N/A				
Eyes:	Wear goggles or glasses with side shields If not available wear face shield. Avoid splashes.		Acute(Immediate) - Burning sensation, Redness Chronic(Delayed) - N/A				
Oral (Ingestion):	Do not swallow or taste.		Acute(Immediate) - Nausea, Vomiting Chronic(Delayed) - N/A				
SECTION 12- Eco	ological 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 treatment methods

Component

N/A

Product waste	Dispose of following local and federal laws.	
Packaging waste	Rinse with water, recycle if possible.	
	Follow local and federal laws and regulations.	

SECTION 14 -Regulatory Information

CAS

N/A

Safety, health and environmental regulation/legislation specific for the substance or mixture SARA hazard classifications:

• Acute, Fire

TSCA

N/A

Inventory

State Right To Know

Canada NDSL

N/A

Canada DSL

N/A

Component	CAS	M/A	N/J	pa			
N/A	N/A	N/A	N/A	N/A			
SECTION 15 - o	ther Informa	tion					
Last Revision Date	: :	N/A	N/A				
Preparation Date:	•	23-Jun-15					
Disclaimer/Statement of Liability:		and is reasonal accordance wi warranty nor a particular procuproduct contra	and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use. Neither this warranty nor any other warranty of merchantability or 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				