Safety Data Sheet - 15 Sections

SECTION 1 - IDENT	TIFICATION	
Product Identifier / Na	me	
KeyPlex 350 OR		
Product Use		
Plant Nutrition		
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 prev	ent and correct micronutrient deficiencies when used as directed.
407-682-6500	Refer to the label.	
SECTION 2 - Hazai	d Identification	
United States (US): Ac	cording to OSHA 29 CFR 1910.1	200 HCS
Classification of the su	ı bstances or mixtures: OSHA H	CS 2012
Label Elements:		
 KeyPlex 350 OR is a low pH (acidic) water soluble liquid. KeyPlex 350 OR can corrode metals after long exposure, always use acid resistant, corrosion resistant equipment when using or handling KeyPlex 350 OR. 		
Precautionary Statemo	micronutri • Use as dire	Agricultural production, to alleviate ent deficiencies. ected on the label. ocal and federal regulations regarding ical use.

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	
Other Hazards:	• USHA HCS 2012	

Canada

According to WHMIS

Classification of the substance or mixture: WHMIS

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

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	15.5	10034-99-8	N/A	N/A
Manganese Sulfate Monohydrate	2.1	10034-96-5	N/A	N/A
Iron Sulfate Heptahydrate	17.5	7782-63-0	N/A	N/A
Zinc Sulfate monohydrate	4.4	7446-19-7	N/A	N/A
CQ3005	0-54	Mixture	N/A	N/A
Ammonium Hydroxide	2	1336-21-6	N/A	N/A
Humic Acid	3.88	308066-67-3	N/A	N/A
Yeast Extract(containing Alpha Keto Acids)	0.063	Mixture	N/A	N/A

SECTION 4 - First Measures Inhalation: • Move victim to fresh air. • If persons 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 thoroughly rinses the eyes by	
		periodically lifting the upper and lower lids.	
		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 a green is an appairing. By not give.	
		Contact physician if person is unconscious. Do not give	
		anything by mouth.	
Most important symptoms and effect	ts.	Upset stomach	
Both acute and delayed:		Vomiting	
Indication of any immediate medical	attention	Notes to physician	
and special treatment needed:			
SECTION 5 - Fire - Fighting Me	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 t	he substanc	e or mixture:	
Unusual Fire and Explosion:	• N/A		
Hazards:	• N/A		
Hazardous Combustion Products	• If this prod	luct is heated to an anhydrous state it will emit Sulfur	
	Dioxide va	apors which are hazardous if inhaled	
• Exposure to		to high heat can emit toxic vapors	
Advice for firefighters	KeyPlex 350 OR is not a flammable liquid and is very water-soluble.		
	 In case of fire, use sufficient water to dilute the product to avoid 		
		n of Sulfur Dioxide.	
SECTION 6 - Accidental Release			
Personal Precautions:	Always wear acid resistant protective clothing when handling this		
	_	a. a.a. colorant 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		
Environmental Freedations.	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.		
and cleaning up.			
	Isolate the spill area and restrict access to non-essential personnel.Stop the flow of the material at the source.		
	• Stop the now 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 spilled 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.		
SECTION 7 - Handling and Stora	age		
Precautions for safe handling:	Always wear acid resistant protective clothing, gloves and eye protection		
	while handling 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°C		
	or above 50°C.		
	Keep out of direct sunlight.		
Incompatible Materials for	N/A		
ignition Sources:			

SECTION 8 - Exposure Controls / Personal Protection

Control Parameters

Exposure Limits/ Guidelines

	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
		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

Physical Form Liquid	Appearance/Description	Opaque
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continuation of sect	ion 9			
Color	Dark E	Brown	N/A	N/A
Taste	N,	/A	N/A	N/A
Particular Size	N/A	N/A	N/A	A
Odor threshold	Data lacking	Physical and Chemica Properties	Data lacking	
		General Propertie	S	
Boiling Point:		100°C.	Melting Point	N/A
Decomposition Ten	nperature:	N/A	Heat of Decomposition	N/A
pH:		5.9	Specific Gravity, Relative Density	1.31
Density		11.olbs/gal.	Bulk Density	N/A
Water Solubility:		Soluble	Solvent Solubility	N/A
Viscosity:		N/A	Explosive Properties	Classification criteria not met
Oxidizing Propertie	es:	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		
		Flammability		
Flash Point		N/A	UEL	N/A
LEL		N/A	Autoignition	N/A
Self Accelerating		N/A	Heat of Combustion	N/A
Decomposition Ten	nperature (SADT)	N/A		N/A
Burning Time		N/A	Flame Duration	N/A N/A
Flame Height		N/A	Flame Extension	
Ignition Distance		N/A Environmental	Flammability (solid, gas)	N/A
Half-life		N/A	Octano/Water Partition	N/A
			Coefficient	
Coefficient of water/oil distribution		N/A	Bioaccumulation Factor	N/A
Bioconcentration Factor		N/A	Biochemical Oxygen	N/A
			Demand BOD/Bod5	
Chemical Oxygen Demand		N/A	Persistence	N/A
Degradation		N/A		N/A
SECTION 10 - St Reactivity:	• Yes	-		
Chemical Stability:	 Under normal temperatures and atmospheric pressure this product is stable 			is stable

Possibility of	
hazardous reactions:	• Yes
	Avoid mixing with Methomyl (S-methyl-N-[(methycarbamoyl)oxy] thioacetimidate.
Conditions to avoid:	Use a jar compatibility test with unfamiliar mixtures and phosphorus
	containing products.
Incompatible	Avoid mixing with Methomyl (S-methyl-N-[(methycarbamoyl)oxy] thioacetimidate.
Materials:	Use a jar compatibility test with unfamiliar mixtures and phosphorus
	containing products.
Hazardous	
decomposition	Sulfur Dioxide (SO ₂) Vapors at high temperatures
materials:	

SECTION 11 - Doxological Information

Information on toxicological effects

Component Name	CAS	Data		
Keyplex 350 OR	Mixture	Acute Toxicity		
		Oral (ATE):	N/A	
		Irritation:	N/A	
		Dermal (ATI	E): N/A	
		Eye (ATE): N/A		
		Reproduc	tive: N/A	
GHS Properties		OSHA HCA 2012 • Classification Criteria not met		
Acute toxicity		N/A		
Aspiration Hazard		N/A		
Carcinogenicity		N/A		
Germ Cell Mutagenicity			N/A	
Respiratory sensitization	on		N/A	
Serious eye damage/irr	itation		N/A	
Skin corrosion/Irritation			N/A	
Skin sensitization		N/A		
STOT-RE			N/A	
STOT-RE		N/A		
Toxicity for Reproducti	ion		N/A	

Target Organs

Route[s] of entry exposure				
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	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 treatment methods

Component

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

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

Inventory

Canada NDSL

TSCA

Canada DSL

-							
N/A	N/A	N/A	N/A	N/A			
State Right To Know							
Component	CAS	M/A	N/J	pa			
N/A	N/A	N/A	N/A	N/A			
SECTION 15 - other	SECTION 15 - other Information						
Last Revision Date:		N/A					
Preparation Date :		23-Jun-15					
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 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 such use.					