

# Safety Data Sheet - 15 Sections

## SECTION 1 - IDENTIFICATION

### Product Identifier / Name

KeyPlex 120

### Product Use

Plant Nutrition

Product Code: N/A

### Manufacturer

KeyPlex

### Details of the supplier of the safety sheet

N/A

### Street Address

P.O.Box 2515

### City

Winter Park

### Province

Florida

### Postal Code

32790

### Emergency Telephone

ChemTrac 1-800-424-9300

### Telephone (General)

407-682-6500

**Recommended uses:** To prevent and correct micronutrient deficiencies when used as directed.  
Refer to the label.

## SECTION 2 - Hazard Identification

**United States (US):** According to OSHA 29 CFR 1910.1200 HCS

**Classification of the substances or mixtures:** OSHA HCS 2012

### Label Elements:



### Hazard statements:

- KeyPlex 120 is a low PH(acidic) water soluble liquid.
- KeyPlex 120 can corrode metals after prolonged exposure, always use acid resistant, corrosion resistant equipment when using or handling KeyPlex 350 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.

### Response:

- N/A

### Storage / Disposal:

- Store in a well ventilated and secure storage facility

	<ul style="list-style-type: none"><li>• Ventilation system should be corrosive resistant.</li><li>• The product should not be stored at temperatures below 5°C or above 50°C.</li><li>• Keep out of direct sunlight.</li></ul>			
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				
SECTION 3 - Composition / Information on Ingredients				
Chemical Name	% (weight)	CAS No.	LD <sub>50</sub> Ingredient (specify species and route)	LD <sub>50</sub> Ingredient (specify species)
Manganese Sulfate	0.11	10034-96-5	N/A	N/A
Iron Sulfate	0.2	7782-63-0	N/A	N/A
Zinc Sulfate	0.1	7446-19-7	N/A	N/A
Disodium Octaborate Tetrahydrate	0.7-0.9	12280-03-4	N/A	N/A
Sodium Glucoheptonate	0-53	31138-65-5	N/A	N/A
Humic Acide	0.725-0.925	308066-67-3	N/A	N/A
SECTION 4 - First - Aid Measures				
Inhalation:	<ul style="list-style-type: none"><li>• Move victim to fresh air.</li><li>• If person is NOT breathing call Emergency Services, perform artificial respiration if necessary.</li><li>• Call Physician if symptoms persist.</li></ul>			
Skin:	• Remove all contaminated clothing.			
	<ul style="list-style-type: none"><li>• Wash skin with soap and clean water thoroughly for at least 20 minutes.</li><li>• Seek Medical attention if irritation develops and persists.</li></ul>			
Eye:	<ul style="list-style-type: none"><li>• Flush eyes with clean running water for a minimum of 15-20 minutes.</li><li>• Make certain the water thoroughly rinses the eyes by periodically lifting the upper and lower lids.</li></ul>			
	• Get medical attention if irritation persists.			

Ingestion:	<ul style="list-style-type: none"> <li>• Call Physician .</li> <li>• Have person sip a glass of clean water to rinse mouth and spit.</li> <li>• Do not induce vomiting unless instructed by a physician.</li> <li>• Contact physician if person is unconscious. Do not give anything by mouth.</li> </ul>
Most important symptoms and effects. Both acute and delayed:	<ul style="list-style-type: none"> <li>• Upset stomach</li> <li>• Vomiting</li> </ul>
Indication of any immediate medical attention and special treatment needed:	<ul style="list-style-type: none"> <li>• Notes to physician</li> </ul>
<b>SECTION 5 - Fire - Fighting Measures</b>	
Suitable Extinguishing Media:	<ul style="list-style-type: none"> <li>• Water</li> </ul>
Unsuitable Extinguishing Media	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
Flash Point:	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
Upper Flammable Limit	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
Auto Ignition:	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
Method Used:	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
<b>Special hazards arising from the substance or mixture:</b>	
Unusual Fire and Explosion:	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
Hazards:	<ul style="list-style-type: none"> <li>• N/A</li> </ul>
Hazardous Combustion Products	<ul style="list-style-type: none"> <li>• If this product is heated to an anhydrous state it will emit Sulfur Dioxide vapors which are hazardous if inhaled</li> </ul>
Advice for firefighters	<ul style="list-style-type: none"> <li>• KeyPlex 120 is not a flammable liquid and is very water-soluble.</li> <li>• In case of fire, use sufficient water to dilute the product to avoid production of Sulfur Dioxide.</li> </ul>
<b>SECTION 6 - Accidental Release Measures</b>	
Personal Precautions:	<ul style="list-style-type: none"> <li>• Always wear acid resistant protective clothing when handling this product.</li> <li>• Always wear Gloves and Eye Protection.</li> <li>• Handle in well ventilated area.</li> </ul>
	<ul style="list-style-type: none"> <li>• Wear respiratory equipment.</li> </ul>
Environmental Precautions:	<ul style="list-style-type: none"> <li>• Take all spill control measures necessary to avoid contamination of ground water and storm run-off drains.</li> </ul>
Methods and Material for containment and cleaning up:	<ul style="list-style-type: none"> <li>• Wear acid resistant, protective clothing, respiratory equipment and eye protection.</li> <li>• Isolate the spill area and restrict access to non-essential personnel.</li> <li>• Stop the flow of the material at the source.</li> </ul>
	<b>Spill on Non-Absorbent Surfaces:</b> <ul style="list-style-type: none"> <li>• Use Dry absorbent material such as Towels or Diatomaceous earth.</li> </ul>

- 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 Storage

**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 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.

## 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

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

## SECTION 9 - Physical and Chemical Properties

### Information on Physical and Chemical Properties

#### Material Description

<b>Physical Form</b>	Liquid		<b>Appearance/Description</b>	Translucent
<b>Color</b>	Light Green		N/A	N/A
<b>Taste</b>	N/A		N/A	N/A
<b>Particular Size</b>	N/A	N/A	N/A	
<b>Odor threshold</b>	Data lacking	<b>Physical and Chemical Properties</b>	Data lacking	

#### General Properties

<b>Boiling Point:</b>	100°C.	<b>Melting Point</b>	N/A
<b>Decomposition Temperature:</b>	N/A	<b>Heat of Decomposition</b>	N/A
<b>PH:</b>	4.8-5.2	<b>Specific Gravity, Relative Density</b>	1.32-1.36
<b>Density</b>	11.0-11.4lbs/gal	<b>Bulk Density</b>	N/A
<b>Water Solubility:</b>	Soluble	<b>Solvent Solubility</b>	N/A
<b>Viscosity:</b>	N/A	<b>Explosive Properties</b>	Classification criteria not met
<b>Oxidizing Properties:</b>	N/A	N/A	N/A

#### Volatility

<b>Vapor Pressure</b>	N/A	<b>Vapor Density</b>	N/A
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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 Temperature (SADT)	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
hazardous reactions:	• Yes
Conditions to avoid:	• 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	• Sulfur Dioxide (SO <sub>2</sub> ) Vapors at high temperatures

## SECTION 11 - Toxicological Information

### Information on toxicological effects

Component Name	CAS	Data
Keyplex 120	Mixture	Acute Toxicity
		Oral (ATE): N/A
		Irritation: N/A

	Dermal (ATE): N/A Eye (ATE): N/A Reproductive: N/A
<b>GHS Properties</b>	<b>OSHA HCA 2012 • Classification Criteria not met</b>
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-RE	N/A
Toxicity for Reproduction	N/A

### Target Organs

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

### SECTION 12- Ecological Information

<b>Toxicity:</b>	not toxic to bees
<b>Persistence and Degradability:</b>	N/A
<b>Bioaccumulative potential:</b>	None
<b>Mobility in soil:</b>	mobile in soil
<b>other adverse effects:</b>	N/A
<b>other information:</b>	N/A

### SECTION 13 -Disposal Considerations

Waste treatment methods	
<b>Product waste</b>	Dispose of following local and federal laws.
<b>Packaging waste</b>	Rinse with water, recycle if possible. Follow local and federal laws and regulations.

**SECTION 14 -Regulatory Information**

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

• Acute, Fire

**Inventory**

Component	CAS	Canada DSL	Canada NDSL	TSCA
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 Information**

Last Revision Date:	N/A
Preparation Date :	11-Jun-19
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 condition 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.