

**SECTION 1 – PRODUCT IDENTIFICATION AND USE**

<b>PRODUCT IDENTIFIER:</b>	Phosphoric Acid		
<b>PRODUCT USE:</b>	Chelating agent/ Plant nutrient	<b>WHMIS CLASSIFICATION:</b>	NAV
<b>MANUFACTURER'S NAME:</b>	Greentek Fertilizer Inc.	<b>SUPPLIER'S NAME:</b>	Same as manufacturer
<b>ADDRESS</b>	202-27090, Gloucester Way Adergrove, BC V4W 3Y5, Canada	<b>ADDRESS</b>	Same as manufacturer
<b>Emergency Phone No:</b> 1 (604) 857 0300			

**SECTION 2 – HAZARDOUS INGREDIENTS**

HAZARDOUS INGREDIENTS	Conc in %	CAS #	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES & ROUTE)
Phosphoric Acid	30-100	7664-38-2	LD <sub>50</sub> (oral male rat) 1530 mg/Kg LD <sub>50</sub> (dermal rabbit) 2730 mg/Kg Inhalation LC <sub>50</sub> (rat) 850 mg/m <sup>3</sup>

**SECTION 3 – PHYSICAL DATA**

<b>PHYSICAL STATE:</b>	Liquid	<b>ODOUR &amp; APPEARANCE</b>	Odorless, but at elevated temperatures strong pungent odor. Clear, colorless liquid.
<b>ODOUR THRESHOLD (ppm):</b>	NAV	<b>VAPOUR PRESSURE (mm Hg): @ 20°C</b>	5.65-2.16
<b>VAPOUR DENSITY (air=1):</b>	NAV	<b>EVAPORATION RATE: (Butyl Acetate =1.0)</b>	NAV
<b>pH:</b>	<1 @ 1% Wt.	<b>SOLUBILITY (in water):</b>	Soluble in water
<b>FREEZING/MELTING POINT/ (°C)</b>	-17 - 27 °C/1-70°F	<b>SPECIFIC GRAVITY</b>	<1.573 @ 25°C
<b>COEFF. WATER/OIL DIST</b>	NAV	<b>BOILING POINT</b>	135-158°C/275-316 °F

**SECTION 4 – FIRE AND EXPLOSION DATA**

<b>FLAMMABLE:</b>	This product is not defined as flammable or combustible.		
<b>IF YES, UNDER WHAT CONDITIONS?</b>	Product is not combustible, however, contact with combustible material may cause fire.		
<b>MEANS OF EXTINCTION:</b>	Use DRY chemical, carbon dioxide, alcohol foam or water spray as extinguishing agents.		
<b>FLASHPOINT (°C) &amp; METHOD:</b>	NAV	<b>AUTOIGNITION TEMPERATURE (°C)</b>	NAV
<b>LOWER FLAMMABLE LIMIT (% by volume):</b>	NAV	<b>UPPER FLAMMABLE LIMIT (% by volume):</b>	NAP
<b>SENSITIVITY TO IMPACT:</b>	It is not self-reactive and is not sensitive to physical impact.	<b>SENSITIVITY TO STATIC DISCHARGE:</b>	NAV

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**HAZARDOUS  
COMBUSTION  
PRODUCTS:**

Thermal decomposition product may release toxic and/or hazardous fumes and gases, including nitrogen oxides and carbon oxide.

## SECTION 5 – REACTIVITY DATA

**CHEMICAL  
STABILITY:**

This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

**INCOMPATIBILITY:**

Reactive with oxidizing agents, combustible materials, alkali and metals.

**CORROSIVE  
BEHAVIOUR:**

Corrosive

**HAZARDOUS  
DECOMPOSITION  
PRODUCTS:**

Oxides of phosphorus.

## SECTION 6 – TOXICOLOGICAL PROPERTIES

**ROUTES OF ENTRY:** Primary Route(s) of Exposure

<b>SKIN CONTACT:</b>	Yes	<b>SKIN ABSORPTION:</b>	Yes	<b>EYE CONTACT:</b>	Yes	<b>INHALATION:</b>	Yes	<b>INGESTION:</b>	Yes
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**EFFECTS OF ACUTE EXPOSURE TO PRODUCT:** There are no data available that address medical conditions that are generally recognized as being aggravated by exposure of this product.

**INGESTION:** Corrosive! May cause severe pain in the mouth, chest and abdomen, leading to cough, vomiting and collapse.

**INHALATION:** Mists may cause irritation of upper respiratory tract. Coughing, shortness of breath, headaches and confusion may occur. Vapors may cause pulmonary edema.

**EYE CONTACT:** Corrosive to eye tissue and may cause severe damage and blindness.

**SKIN CONTACT:** Causes sever skin irritation. Causes burns.

**EFFECTS OF CHRONIC EXPOSURE:** NAV

**EXPOSURE LIMIT:** ACGIH 3 mg/m<sup>3</sup> STEL; OSHA 1 mg/m<sup>3</sup>TWA IDLH  
1 mg/m<sup>3</sup> TLV-TWA 3 mg/m<sup>3</sup> 100 mg/m<sup>3</sup>

**CARCINOGENICITY**

IARC, NTP, ACGIH & OSHA do not classify or suspect as carcinogen.

**MUTAGENICITY:**

NAV

**REPRODUCTIVE HAZARD:**

NAV

**TERATOGENICITY/  
EMBRYOTOXICITY:**

NAV

**IRRITANCY**

Yes

**SENSITIZATION:**

Yes

**SYNERGISTIC PRODUCTS**

NAV

## SECTION 7 – PREVENTIVE MEASURES

**PERSONAL PROTECTIVE  
EQUIPMENT:**

**Respiratory Protection:** If exposure exceeds limits, use an appropriate NIOSH approved. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.

**Eye Protection:** Chemical safety goggles; also wear a face shield if splashing hazard exists.

**Skin Protection:** Use suitable protective footwear, gloves and clothing selected for conditions of use and exposure potential. Consider durability as well as permeation resistance. Confirm impermeability prior to use.

**Wear** impermeable apron and coveralls.

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<b>ENGINEERING CONTROLS:</b>	Local exhaust ventilation required. Ensure that eye wash station are near working station/place.
<b>HANDLING PROCEDURES:</b>	Avoid inhalation and prolonged and/or repeated skin and eye contact. Minimize generation of dust. In certain concentrations, the product may form an explosive dust-air mixture.
<b>STORAGE REQUIREMENTS:</b>	Keep containers closed and dry. This material is suitable for any general chemical storage area. Isolate from strong oxidizing agents. Store in a cool and dry place below 25°C. Do not open the container until read for use.
<b>LEAK AND SPILL PROCEDURE:</b>	Safely stop source of spill. Restrict non-essential personnel from area. All personnel involved in spill cleanup should avoid skin and eye contact by wearing appropriate personal protective equipment.
<b>WASTE DISPOSAL:</b>	Wastes disposal must be done in accordance with government requirements and local disposal regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

## SECTION 8 – FIRST AID MEASURES

<b>INHALATION:</b>	Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate attention.
<b>SKIN CONTACT:</b>	Remove contaminated clothing, shoes and equipment. Wash affected areas with soap and plenty of water for fifteen (15) minutes. If the victim is wearing contact lenses, remove them. Remove contaminated clothing and launder before reuse. Discard contaminated shoes and discard. Get medical attention if irritation occurs or persists.
<b>EYE CONTACT:</b>	Flush eyes thoroughly with large quantities of running water for a minimum of 15 minutes. Get medical attention. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eye and lids with water.
<b>INGESTION:</b>	If patient is fully conscious, give two glass of water. Get medical attention ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Administer artificial respiration if breathing stopped. <b>Note to Physician:</b> Attending physician should treat exposed patients symptomatically.

## SECTION 9 – DEPARTMENT OF TRANSPORTATION

- Class 8, UN1805, DOT PG III

**-Placecard: Corrosive**

## SECTION 10 – PREPARATION DATE OF MSDS

**PREPARED BY:** Greentek Fertilizer Inc.  
202-27090, Gloucester Way  
Adergrove, BC  
V4W 3Y5, Canada

### ADDITIONAL INFORMATION:

At the time of preparation, the information and data contained in this MSDS are believed to be accurate and have been compiled from sources that are believed to be reliable.

**BUSINESS NUMBER:** 1 (604) 857 0300

**DATE:** November, 2015