

Conforms to HCS 2012 – United States



## SAFETY DATA SHEET

### Elemental Fertilizer – PK Punisher

#### SECTION 1 - IDENTIFICATION OF PREPARATION

<b>PRODUCT IDENTITY</b>	: PK Punisher
<b>APPLICATION</b>	: Hydroponic Fertilizer
<b>RESTRICTIONS</b>	: Professional use only
<b>COMPANY IDENTITY</b>	: GREENAIR PRODUCTS LLC
<b>COMPANY ADDRESS</b>	: GREENAIR PRODUCTS LLC :PO BOX 1410 : BORING, OR 97009
<b>COMPANY PHONE</b>	: 503-663-2000
<b>EMERGENCY 24HR PHONE</b>	<b>CHEMTREC:</b> 1-800-424-9300 USA

#### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical characterization</b>	: Solute in water
<b>Chemical composition</b>	: Mono Potassium Potassium Sulfate Fines Iron DPTA - Manganese EDTA - Molybdic Acid

#### SECTION 3 - HAZARD IDENTIFICATION

<b>OSHA/HCS status</b>	: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
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#### SECTION 4 - FIRST AID MEASURES

<b>Eye contact</b>	: Irrigate thoroughly with water. If discomfort persists, obtain medical attention.
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<b>Ingestion</b>	: Wash out mouth thoroughly with water. In severe cases obtain medical attention. Do not induce vomiting
<b>Inhalation</b>	: N/A
<b>Skin contact</b>	: Wash off thoroughly with water & soap

## SECTION 5 – FIRE FIGHTING MEASURES

<b>Extinguishable media</b>	: Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: None known
<b>Fire extinguisher</b>	: N/A
<b>Special fire fighting precautions:</b>	None

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### In case of accidental spill or release. Personal precautions equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in “For non-emergency personnel”.

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### **Methods and materials for containment and cleaning up**

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## SECTION 7 – HANDLING AND STORAGE

### Precautions for safe handling

Under no circumstances eat or drink while handling this material. Wash hands and face after working with material.

### **Conditions for safe storage, including any incompatibilities**

: Store at room temperature (@15°-25° C) Protect from direct sunlight & moisture  
Keep container well closed. Keep away from children. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

### Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Hand Protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

### Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

**Physical state** : Liquid [Aqueous solution]

**Color** : Green

**Odor** : Odorless

**pH** :

**Relative density** : 1.25

**Solubility in water:** Miscible in any proportion

**Melting point** : N/A  
**Boiling point** : > 100° C

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** Stable

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Conditions to avoid** : No specific data.

**Incompatible materials** : Calcium and reactive or incompatible with the following materials: oxidizing materials.

**Hazardous decomposition products**

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**In case of ingestion** : After ingestion of large amounts: nausea, vomiting, gastro-intestinal distress, abdominal discomfort may occur. Seek medical advice.

**Further data** : LD50 (oral-rat): N/A No evidence of carcinogenic properties. No evidence of mutagenic or teratogenic effects

## SECTION 12 – ECOLOGICAL INFORMATION

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

## SECTION 13 – ECOLOGICAL INFORMATION

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers

## SECTION 14 – TRANSPORTATION INFORMATION

	<b>DOT Classification</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	Not regulated	Not regulated	Not regulated
<b>UN proper shipping name</b>	-	-	-
<b>Transport hazard class(es)</b>	-	-	-
<b>Packing group</b>	-	-	-
<b>Environmental hazards</b>	No	No	No
<b>Additional information</b>			

**Special precautions user** : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## SECTION 15 – REGULATORY INFORMATION

**Labeling according to EEC directives:**

**R-phrases** :

**S-phrases** :

## SECTION 16 – OTHER INFORMATION

**History**

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**Prepared by** : GREENAIR PRODUCTS LLC

**Notice to reader**

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