

**SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**1.1 Product Name:** **mkp 0-52-34 Mono-Potassium Phosphate**  
**Chemical/Common Name:** MKP, Potassium Dihydrogen Phosphate; Monobasic Potassium Phosphate  
**1.2 Manufactured For:** Plant Food Company, Inc. **Emergency Telephone Number** 609-448-0935  
 38 Hightstown-Cranbury Station Road **Telephone Number for Information** 609-448-0935  
 Cranbury, NJ 08512 **Date Prepared** 11/1/2011

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

*Hazardous Components (Specific Chemical)*

Identity: Common Name	(CAS #)	OSHA PEL	ACGIH TLV	Other Limits Recommended
Phosphorous Pentoxide (Soluble)	N/A	N/A	N/A	N/A
Potassium Oxide (Soluble)	N/A	N/A	N/A	N/A

**SECTION 3: HAZARDS IDENTIFICATION**

White powder deliquescent that is odorless. May cause eye and skin irritation. May be harmful if ingested. Carbon monoxide fumes may form from burning. Not D.O.T. regulated  
 NEPA: Health:1 Reactivity:0 Flammability:0 Environment:0 (0=Insignificant=1 Slight 2=Moderate 3=High 4=Extreme)

**EMERGENCY OVERVIEW**

This material is not a 'health hazard' or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration Hazard Communication Standard, 20 CFR 1910.1200

**3.1 POTENTIAL HEALTH EFFECTS**  
**EYE:** Minimally to moderately irritating to unwashed eyes.  
**SKIN CONTACT:** Irritation from continuous contact has been reported during manufacturing when protective measures for contact or personal hygiene procedures are not followed.  
**SKIN ABRORPTION:** Absorption is unlikely to occur.  
**INGESTION:** Ingestion of product solution may cause irritation o the gastrointestinal tract to include nausea, vomiting and diarrhea.  
**INHALATION:** Inhalation of product mis may cause irritation of the nose, throat and respiratory tract.  
**CHRONIC EFFECTS/CARCINOGENICITY:** Not listed as a carcinogen by NTP, IARC or OSHA.

**SECTION 4: FIRST AID MEASURES**

**4.1 EYES:** Flush immediately with plenty of water for at least 15 minutes while holding eyelids apart to ensure complete irrigation of all eye and lid tissue. If irritation occurs, seek medical attention.  
**4.2 SKIN:** Wash with plenty of soap and water. Remove contaminated clothing and shoes under a safety shower. Get medical attention if irritation persists.  
**4.3 INGESTION:** If conscious and alert, administer water or milk to dilute, then induce vomiting. Call Poison Control Center or physician immediately. Do not give anything by mouth to an unconscious person.  
**4.4 INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth and get medical attention. If heart has stopped beating, external heart massage should be applied. Obtain medical attention.

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 FLAMMABLE PROPERTIES**  
**FLASHPOINT:** Not flammable **METHOD USED:** Closed Cup/NONCOMBUSTIBLE  
**5.2 FLAMMABLE LIMITS:** LFL: NA UFL: NA  
**5.3 EXTINGUISHING MEDIA:** This material does not burn. Extinguish fire using aproprate extinguishing meda such as foam, carbon dioxide, dry chemical, or water  
**5.4 FIRE & EXPLOSIVE HAZARDS:** Monopotassium Phosphate and its solutions do not burn or support combustion.  
**5.5 FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus, pressure demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid smoke inhalation.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 SMALL RELEASES:** Contain product. Reuse material if uncontaminated. If contaminated, sweep, shovel or vacum material into a suitable container for proper disposal. Do not contaminate water supplies.  
**6.2 WASTE DISPOSAL METHOD:** This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

**SECTION 7: HANDLING AND STORAGE**

**7.1 HANDLING:** Avoid contact with eyes. Use only in a well ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated breathing of vapors. Avoid prolonged or repeated contact with the skin.  
**7.2 STORAGE:** Store in original container only in a cool, well-ventilated, dry place. Do not store near food or feeds.

**SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

**8.1 RESPIRATORY PROTECTION:** Not normally needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/moist respirator (such as 3M#8710).  
**Ventilation:** Where air contaminants can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminate  
**8.2 SKIN PROTECTION:** Neoprene rubber groves. Wash contaminated clothing prior to reuse.  
**8.3 EYE PROTECTION:** Chemical goggles and a full face shield. **DO NOT WEAR CONTACT LENSES.**  
**8.4 EXPOSURE GUIDELINES:**

	TWA	STEL
OSHA	N/A	N/A
ACGIH	N/A	N/A

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 APPEARANCE	White powder deliquescent
9.2 ODOR:	Odorless
9.3 VAPOR PRESSURE:	None
9.4 VAPOR DENSITY:	Not available
9.5 SOLUBILITY IN WATER:	Soluble
9.6 SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	1.25 G/ML
9.7 MELTING POINT:	487°F (253°C)
9.8 pH:	4.5 at 1 wt/wt%
9.9 VOLATILE:	Not available
9.10 COLOR:	White powder deliquescent
9.11 WEIGHT PER GALLON:	Not applicable
9.12 STORAGE LIFE AT 70° F:	> 1 Year
9.13 PH-21C:	Not available
9.15 VISCOSITY:	Not available
9.16 FREEZING POINT:	Not available
9.17 EVAPORATION RATE:	Not available
9.18 BOILING POINT:	Not available

**SECTION 10: STABILITY AND REACTIVITY**

- 10.1 STABILITY: Stable
- 10.2 HAZARDOUS POLYMERIZATION: Will not occur.
- 10.3 HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition Type: thermal, Oxides of phosphorus, oxides of potassium.
- 10.4 INCOMPATIBILITY: Not Available

**SECTION 11: TOXICOLOGICAL INFORMATION**

- 11.1 ORAL: May cause stomach cramps and/or nausea. LD<sub>50</sub>-lethal dose 50% of test species, >4640 MG/KG (rat)
- 11.2 DERMAL: May cause slight irritation, especially from prolonged exposure. Minimally irritating at 300 MG/KG; Non-irritating at 20 MG/KG (rabbit)
- 11.3 INHALATION: None expected but inhalation may cause mild irritation of nasal mucous membranes.
- 11.4 CHRONIC/CARCINOGENICITY: Data not available
- 11.5 TERATOLOGY: Data not available
- 11.6 REPRODUCTION: Data not available
- 11.7 MUTAGENICITY: Data not available
- 11.8 EYES: May cause temporary eye irritation. Mildly irritating to unwashed eyes (rabbit)

**SECTION 12: ECOLOGICAL INFORMATION**

- 12.1 Alga/Lemna Growth Inhibition: Not known.
- 12.2 Toxicity to Fish and Invertebrates: Not known
- 12.3 Toxicity to Plants: Not known
- 12.4 Toxicity in Birds: Not known

**SECTION 13: DISPOSAL CONSIDERATIONS**

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents in accordance with state and local waste disposal regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal.

**SECTION 14: TRANSPORTATION INFORMATION**

D.O.T.	Not D.O.T. Regulated
Other Shipping Description:	Compound, Fertilizer (Manufactured Fertilizer), Solid, NOIBN

**SECTION 15: REGULATORY INFORMATION**

- 15.1 CERCLA: None
- 15.2 SARA TITLE III, Section 313 Toxic Chemicals: None

**SECTION 16: OTHER INFORMATION**

This information was developed from information on the constituent materials. No warranty is expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and Plant Food Company, Inc. disclaims all liability for reliance thereon. The user should satisfy himself that he has all current data relevant to his particular use.