SAFETY DATA SHEET

Monopotassium Phosphate, Anhydrous

Section 1. Identification

GHS product identifier : Monopotassium Phosphate (MKP)
Product type : solid

Uses
Area of application : Not Applicable

Supplier
Supplier’s details : Greenway Biotech, Inc.

Address
Street : 10632 Painter Ave
Postal code : 90670
City : Santa Fe Springs
Country : United States

Telephone number : +1 562-351-5168
e-mail address of person responsible for this SDS : sales@greenwaybiotech.com
Emergency telephone number (with hours of operation) : US: Chemtrec 24-hours Emergency Response: 1-800-424-9300
Canada: 24 Hour Emergency Service, (Canutec 613-996-6666)

National advisory body/Poison Center
Name : The National Poisons Emergency number
Telephone number : 1 800 222 1222

Section 2. Hazards identification

EMERGENCY OVERVIEW:
This product is a white powder with no odor.

Health Hazards : None anticipated.
Flammability Hazards : This product is not flammable.
Reactivity Hazards : None.
Environmental Hazards : This product is not expected to have adverse effects to the aquatic environment.

Index Number: EC# 231-913-4 is not listed in Annex VI
Substances not listed either individually or in group entries must be self-classified.
Component(s) Contributing to Classification(s)
None applicable

Label elements:
GHS Hazard Symbol(s): None
Signal Word: None

GHS Hazard Classification(s):
Not Classified
Hazard Statement(s): None
Prevention Statement(s): None
Response Statement(s): None
Storage Statement(s): None
Disposal Statement(s): None

OTHER HAZARDS:
None Applicable

Section 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>WT%</th>
<th>CAS#</th>
<th>EINECS#</th>
<th>Hazard Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, potassium salt (1:1)</td>
<td>100%</td>
<td>778-77-0</td>
<td>231-931-4</td>
<td>None</td>
</tr>
</tbody>
</table>

Section 4. First aid measures

Description of first aid measures:

Eye contact: If product enters the eyes, open eyes while under gentle running water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention.

Skin contact: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

Inhalation: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

Ingestion: If large quantities of this product are swallowed, call physician or poison control center for most current information. If professional advise is not available, do not induce vomiting. Never induce vomiting or give dilatants (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

Medical conditions aggravated by exposure: Pre-existing skin, respiratory system or eye problems may be aggravated by prolonged contact.

Symptoms and effects both acute and delayed:
Exposure to skin and eyes may cause mechanical irritation.

Recommendations to physicians:
Treat symptoms and eliminate exposure.
Section 5. Fire Fighting Measures

FIRE EXTINGUISHING MATERIALS:

<table>
<thead>
<tr>
<th>NFPA RATING SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
</tr>
<tr>
<td>Health</td>
</tr>
<tr>
<td>Reactivity</td>
</tr>
<tr>
<td>Other</td>
</tr>
</tbody>
</table>

FIRE EXTINGUISHING MATERIALS:

NFPA RATING SYSTEM

FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

- Water Spray: Yes
- Carbon Dioxide: Yes
- Foam: Yes
- Dry Chemical: Yes
- Halon: Yes
- Other: Any "C" Class

Unusual fire and explosion hazards:

Under normal use, no special measures are required.

Explosion Sensitivity to Mechanical Impact: No
Explosion Sensitivity to Static Discharge: No

Special Fire-fighting Procedures:

Incipient fire responders should wear eye protection. Structural status and full protective equipment. Isolate innel. Move containers from fire area if this can lled water spray. If possible, prevent runoff water environmentally sensitive areas.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:
To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Handle in a well ventilated work area.

Environmental Precautions:
If possible, prevent entry to sewers, storm drains, surface waters, and soils.

Spill and leak response:
Spilled product should be removed immediately to avoid formation of dust. Remove by mechanical means (i.e. vacuuming). Dilute remainder with plenty of water (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing.

Section 7. Handling and storage

Precautions for safe handling: To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Handle in a well-ventilated work area.

Storage and Handling Practices: Keep away from incompatible materials. Keep in a dry, well-ventilated area in closed containers. Protect containers from physical damage.

Specific uses: See section 1.2.

Section 8. Exposure controls / personal protection

Exposure Parameters:

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS #</th>
<th>ACGIH TLV</th>
<th>OSHA TWA</th>
<th>EH40TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid, potassium salt (1:1)</td>
<td>7778-77-0</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
Particles not otherwise regulated respirable Fraction:

OSHA  
TWA 5 mg/m3  
NOM 010 STPS 2015  
TWA 3 mg/m3

Particulates not otherwise regulated total dust:

OSHA  
TWA 15 mg/m3  
NOM 010 STPS 2015  
TWA 10 mg/m3

Ventilation and engineering Controls: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

Respiratory Protection: Not required for properly ventilated areas. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S Federal OSHA Respiratory protection standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN 149, or EU member states.


Hand Protection: Gloves are recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canadian, Australian Standards, or relevant Japanese Standards.

Body Protection: Use body protection appropriate to task being performed. If necessary, refer to appropriate standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee’s feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

Section 9. Physical and chemical properties

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: This product is a white powder
ODOR: Odorless
ODOR THRESHOLD: Not Available
pH: 4.5 @ 1 wt/wt%
MELTING/FREEZING POINT: 253°C (487.4°F)
BOILING POINT: Not Available
FLASH POINT: Not available
EVAPORATION RATE (n-ButAc=1): Not Available
FLAMMABILITY (SOLID, GAS): Not Applicable
UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Available
VAPOR PRESSURE (mm Hg @ 20°C (68°F): Not Available
VAPOR DENSITY: Not Available
RELATIVE DENSITY: Not Available
SPECIFIC GRAVITY: 1.25
SOLUBILITY IN WATER: Soluble 20% @ 25°C(77°F)
WEIGHT PER GALLON: Not Available
PARTITION COEFFICIENT (n-octanol/water): Not Available
AUTO-IGNITION TEMPERATURE: Not Available
DECOMPOSITION TEMPERATURE: Not Available
VISCOSITY: Not Available
OXIDIZING PROPERTIES: Not an Oxidizer
EXPLOSIVE PROPERTIES: Not Available
OTHER INFORMATION: No additional information available at this time.

**Section 10. Stability and Reactivity**

**Reactivity:**
No dangerous reaction known under conditions of normal use.

**Stability:**
Stable under conditions of normal storage and use.

**Possibility of hazardous:**
Will not occur

**Conditions to avoid:**
Dusting conditions

**Materials with which substance is incompatible:**
No data available

**Hazardous Decomposition Products:**
Oxides of phosphorus. Oxides of potassium.

**Section 11. Toxicological information**

**TOXICITY DATA:**
CAS 7778-77-0: Dermal-Rabbit LD50: >4640 mg/kg

**Acute toxicity**
Based on available data, the classification criteria are not met

**Skin corrosion / irritation**
Based on available data, the classification criteria are not met

**Serious eye damage / irritation**
Based on available data, the classification criteria are not met

**Respiratory or skin sensitization**
Based on available data, the classification criteria are not met

**Germ cell mutagenicity**
Based on available data, the classification criteria are not met

**Carcinogenicity**
Based on available data, the classification criteria are not met

**Reproductive toxicity**
Based on available data, the classification criteria are not met

**STOT-single exposure**
Based on available data, the classification criteria are not met

**STOT-repeated exposure**
Based on available data, the classification criteria are not met

**Aspiration hazard**
Based on available data, the classification criteria are not met

**Route of exposure:** The most significant routes of overexposure for this product are by contact with the skin or eyes, the symptoms of overexposure are described in the following paragraphs.

**Acute:**
- **Inhalation:** Exposure to dust may cause irritation. Nuisance dust may affect the lungs but reactions are typically reversible.
- **Contact with skin:** Exposure to skin may cause mechanical irritation.
- **Eye contact:** Contact with the eyes may cause mechanical irritation
- **Ingestion:** Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, and diarrhea

**Chronic:**
No data available.

**Target organs:**
- **Acute:** Skin, eyes
- **Chronic:** No data available

**Suspected cancer agent:** Ingredients within this product are not found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, nor suspected to be, cancer-causing agents by these agencies.
Irritancy of product: This product may be irritating, mechanical irritation, to skin and eyes.

Sensitization to the product: No information available for this product

Reproductive Toxicity Information: No specific information is available concerning the effects of this product and its components of the human reproductive system.

**Section 12. Ecological Information**

Toxicity: No specific data available on this product.

Persistence and degradability: No specific data available on this product.

Bioaccumulative potential: No specific data available on this product.

Mobility in soil: No specific data available on this product.

Results of PBT and vPvB Assessment: No specific data available on this product.

Other adverse effects: No specific data available on this product.

Water endangerment class: No data available. At present there are no ecotoxicological assessments for this product.

**Section 13. Disposal Considerations**

Waste treatment methods: Waste disposal must be in accordance with appropriate U.S. Federal, State and local regulations, those of Canada, Australia, EU member states and Japan.

EU waste code: Not determined.

**Section 14. Transportation Information**

US DOT, IATA, IMO, ADR:

14.1 U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

UN IDENTIFICATION NUMBER: None

PROPER SHIPPING NAME: Non-Regulated Material

HAZARD CLASS NUMBER and DESCRIPTION: None

UN IDENTIFICATION NUMBER: None

PACKING GROUP: None

DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be marine Pollutants (49 CFR 172.101, Appendix B).

International Air Transport Association shipping information (IATA): This product is not considered as dangerous goods.

International maritime organization shipping information (IMO): This product is not considered as dangerous goods.

European agreement concerning the international carriage of dangerous goods by road (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.
Section 15. Regulatory information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

UNITED STATES REGULATIONS:
U.S. SARA REPORTING REQUIREMENTS: The components of this product are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act as follows: None
U.S. SARA 311/312: None
U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product.
U.S. CERCLA REPORTABLE QUANTITY (RQ): None
U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.
OTHER U.S. FEDERAL REGULATIONS: None known
CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): No ingredients in this product are on the Proposition 65 lists.

CANADIAN REGULATIONS:
CANADIAN DSL/NDSL INVENTORY STATUS: Components are DSL Listed, NDSL Listed and/or are exempt from listing
OTHER CANADIAN REGULATIONS: Not applicable.
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.
CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is classified per WHMIS 2015 Controlled Product Regulations.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:
This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.
See Section 2 for Details
CHEMICAL SAFETY ASSESSMENT :
No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

AUSTRALIAN INFORMATION FOR PRODUCT:
Components of this product are listed on the International Chemical Inventory list.

JAPANESE INFORMATION FOR PRODUCT:
JAPAN INDUSTRIAL SAFETY AND HEALTH LAW: This product has been classified per the Japan Industrial Safety and Health Law. See Section 2 for the GHS Classification.

INTERNATIONAL CHEMICAL INVENTORIES:
Listing of the components on individual country Chemical Inventories is as follows:
Asia-Pac: Not Listed
Australian Inventory of Chemical Substances (AICS): Listed
Korean Existing Chemicals List (ECL): Listed
Japanese Existing National Inventory of Chemical Substances (ENCS): Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed
Swiss Giftliste List of Toxic Substances: Listed
U.S. TSCA: Listed
Mexican Inventory of chemical substances (NOM 010 STPS 2015): Listed

Section 16. Other information

The information contained herein is believed to be accurate but is not warranted to be so. Data and
calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of the need that information is current, applicable and suited to the circumstances of use. Greenway Biotech assumes no responsibility for injury to vendee or third-party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Greenway Biotech assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.