



咸宁绿地肥料有限公司

XIANNING GREENLAND FERTILIZER CO., LTD

ADD: No.9 JINLONG ROAD, XIANNING CITY, HUBEI, CHINA - PC:430070

Tel / Fax: +86 (715) 8897576 Email: sales@proferts.com www.proferts.com

MATERIAL SAFETY DATA SHEET

(IDENTITY: Mono Potassium Phosphate)

※SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Mono Potassium Phosphate

Synonyms:

Phosphoric acid monopotassium salt, potassium acid phosphate,
potassium diphosphate

COMPANY: XIANNING GREENLAND FERTILIZER CO.,LTD

Address: No. 9, Jinlong Road,Xianning City,Hubei,China—PC4370070

Postal Code: 437000

Tel: 86 715 8897576

Fax: 86 715 889576

E MAIL :martin@proferts.com

※SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
7778-77-0	Phosphoric acid, monopotassium salt	100			231-913-4

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

※SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not available.

Potential Health Effects

Eye: Dust may cause mechanical irritation.

Skin: May cause skin irritation. Low hazard for usual industrial handling.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Low hazard for usual industrial handling.

Inhalation: May cause respiratory tract irritation.

Chronic: Prolonged or repeated skin contact may cause irritation.

※SECTION 4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

※SECTION 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

※SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

※SECTION 7 - HANDLING and STORAGE

Handling:

Avoid prolonged or repeated contact with skin. Use with adequate ventilation.

Storage:

Store in a tightly closed container. Store in a dry area.

※SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

※SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid
Color:	Colorless crystalline powder.
Odor:	Odorless
pH:	4.1-4.5: 5% solution
Vapor Pressure:	Not available.
Viscosity:	Not available.
Boiling Point:	Not available.
Freezing/Melting Point:	487 deg F
Autoignition Temperature:	Not applicable.
Flash Point:	Not applicable.
Explosion Limits, lower:	Not available.
Explosion Limits, upper:	Not available.
Decomposition Temperature:	Not available.
Solubility in water:	33.0% soluble in water.
Specific Gravity/Density:	2.338
Molecular Formula:	KH ₂ PO ₄
Molecular Weight:	136.0837

※SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials: May violently react with strong bases.

Hazardous Decomposition Products: Oxides of phosphorus.

Hazardous Polymerization: Has not been reported.

※SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:CAS# 7778-77-0: TC6615500

LD50/LC50: CAS# 7778-77-0: Skin, rabbit: LD50 = >4640 mg/kg.

Carcinogenicity:

Phosphoric acid, monopotassium salt -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

※SECTION 12 - ECOLOGICAL INFORMATION

Ecological toxicity: Fish toxicity: Not available
Environmental Fate: Not available.
Physical/Chemical: Not available.
Other: Not available.

※SECTION 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

※SECTION 14 - TRANSPORT INFORMATION

IATA
Not regulated as a hazardous material.
IMO
Not regulated as a hazardous material.
RID/ADR
Not regulated as a hazardous material.

※SECTION 15 - REGULATORY INFORMATION

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
WGK (Water Danger/Protection)
CAS# 7778-77-0: 1
Canada
CAS# 7778-77-0 is listed on Canada's DSL List.
CAS# 7778-77-0 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits
US FEDERAL
TSCA
CAS# 7778-77-0 is listed on the TSCA inventory.

※SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 1/04/2012 Revision #1/04/2010 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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