



# SAFETY DATA SHEET

SDS NUMBER: 1000295802-17-LPI

SDS REVISIONS: SEC. 6, 7, 8

DATE OF ISSUE: 03/21/17

**KeeP™ 0-52-34**  
SUPERSEDES: 08/03/16

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**1.1 PRODUCT IDENTIFIER:**

**TRADE NAME:** KeeP™ 0-52-34

**1.2 RECOMMENDED USE:** WATER SOLUBLE FERTILIZER FOR FOLIAR FEED, FERTIGATION AND SOIL APPLICATIONS

**1.3 SUPPLIER DETAILS:**

LOVELAND PRODUCTS, INC.

P.O. Box 1286 • Greeley, CO 80632-1286

**1.4 24-Hour Emergency Phone:** 1-800-424-9300 - **Medical Emergencies:** 1-866-944-8565 - **Product Information:** 1-888-574-2878 (LPI-CUST)  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

## 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

**Classification according to 29 CFR 1910.1200**

Not classified

**2.2 Label elements**

Not required

Signal word: Not required.

Hazard Statement: Not required.

Precautionary Statement: (Prevention): Not required.

Statement: (Response): Not required.

Precautionary Statement: (Storage): Not required.

Precautionary Statement: (Disposal): Not required.

**2.3 Other hazards**

None known



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## 3. COMPOSITION, INFORMATION ON INGREDIENTS

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### 3.1 Substances

### 3.2 Mixtures

Chemical Name:	CAS No.	Concentration [%]
Monopotassium Phosphate	7778-77-0	100

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## 4. FIRST AID MEASURES

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### 4.1 Description of First Aid Measures

General Advice: Get medical attention if symptoms occur.

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

### 4.2 Most Important Symptoms and Effects, Acute and Delayed

Symptoms: May be harmful if swallowed.

### 4.3 Immediate Medical Attention and Special Treatment

Treatment: Treat symptomatically. Symptoms may be delayed.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565**

Take container, label or product name with you when seeking medical attention.

**NOTES TO PHYSICIAN:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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## 5. FIRE FIGHTING MEASURES

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### 5.1 EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Foam, carbon dioxide (CO<sub>2</sub>), dry powder, water spray. Do not use water jet as this will spread the fire.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Specific Hazards During Firefighting: During a fire, oxides of phosphorus can be released.

### 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Special Protective Equipment for Firefighters: Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



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**6. ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Personal Precautions: Avoid formation and inhalation of dusts and spray mist and contact with skin and eyes. Ensure adequate ventilation. Wear suitable protective clothing.

**6.2 ENVIRONMENTAL PRECAUTIONS**

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP**

Methods for Clean-Up: Pick up any spills mechanically. Never return spilled material to original containers for re-use.

**7. HANDLING AND STORAGE**

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

Advice on Safe Handling: Avoid inhalation of dusts, vapors / spray and contact with eyes, skin and clothing. Do not breathe dusts, mist or vapor. Wear personal protective equipment. Do not use in areas without adequate ventilation. Avoid prolonged exposure. Wash thoroughly after handling. Do not empty into drains. Handle and open container with care. Use care in handling/storage. Wash before eating, drinking and/or smoking.

**7.2 CONDITIONS FOR SAFE STORAGE:**

Requirements for Storage Areas and Containers: Store in original container. Keep tightly closed. Store in a cool, dry place. Protect from heat and direct sunlight. Protect from humidity and water. Do not reuse empty container. Store away from oxidizing agents. Do not store together with caustic solutions. Do not contaminate water, food or feed by storage or disposal.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS:**

**OCCUPATIONAL EXPOSURE LIMITS**

**U.S. Workplace Exposure Level (OSHA) PELs**

Components	Type	Value
Particulates (PNOC**)	TWA	15 mg/m <sup>3</sup> (Total Dust); 5 mg/m <sup>3</sup> (Respirable Fraction)

**U.S. Workplace Exposure Level (ACGIH) TLVs**

Components	Type	Value
No listings		

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Specimen
No listings		

**8.2 EXPOSURE CONTROLS:**

**Engineering Measures**

Provide adequate general and local exhaust ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and spray mists. Provide eyewash station and safety shower.

**Individual Protection Measures:**

Eye / Face Protection: Goggles or shielded safety glasses are recommended.  
 Skin Protection: Long sleeved shirt and long pants. Gloves, optional.  
 Respiratory Protection: In case of inadequate ventilation or risk of inhalation of dusts or vapors, use suitable respiratory equipment such as MSHA/NIOSH TC-21C or NIOSH approved respirator with N, R, P or HE filter. Wear respiratory protection during operations where spraying or misting occurs. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection standard. Wear air supplied respiratory protection if exposure concentrations are unknown.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE :	Crystalline solid
ODOR:	Odorless.
ODOR THRESHOLD:	No data available.
COLOR:	White.
pH:	4.2 – 4.5 (208 g/l @ 68 °F   20 °C).
MELTING POINT:	487 °F   252.7 °C
FREEZING POINT:	No data available.
BOILING POINT:	> 842 °F   > 450 °C
FLASH POINT:	Not applicable (Product is an inorganic substance).
FLAMMABILITY (solid, gas):	Not flammable.
UPPER / LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available.
VAPOR PRESSURE:	$4.5 \times 10^{-15}$ Pa @ 25 °C   77 °F.
SOLUBILITY:	Soluble
PARTITION CO-EFFICIENT, n-OCTANOL / WATER:	No data available.
AUTO-IGNITION TEMPERATURE:	Not self-igniting.
DECOMPOSITION TEMPERATURE:	> 842 °F   > 450 °C
VISCOSITY, dynamic:	No data available
SPECIFIC GRAVITY (Water = 1):	1.15 – 1.199 g/ml
BULK DENSITY:	71.8 – 74.9 lbs./ft <sup>3</sup>   1150 - 1200 kg/m <sup>3</sup>

Note: These physical data are typical values based on material tested but may vary from sample to sample.  
Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

### 10. STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

Reacts with alkali.

#### 10.2 CHEMICAL STABILITY

Stable under normal temperature conditions.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Reactions with oxidizing agents are known to occur. Will not polymerize.

#### 10.4 CONDITIONS TO AVOID

Water and excessive heat.

#### 10.5 INCOMPATIBLE MATERIALS

Alkalis and oxidizing agents.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Formation of toxic gases during heating and in case of fire, oxides of phosphorus. Product is hygroscopic.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 LIKELY ROUTES OF EXPOSURE

LC<sub>50</sub> (rat): >0.83 mg/l (4 HR) Sodium dihydrogen phosphate (CAS: 7558-80-7)

LD<sub>50</sub> Oral (rat): > 2,000 mg/kg

LD<sub>50</sub> Dermal (rabbit): > 2,000 mg/kg Potassium pentahydrogen bis(phosphate) (CAS: 14887-42-4)

Acute Toxicity Estimates: No data available

Skin Irritation (rabbit): No data available

Eye Irritation (rabbit): No data available

Specific Target Organ Toxicity: Single exposure: No data available.

Aspiration: No data available

Skin Sensitization (guinea pig): Not a sensitizer

Carcinogenicity: No data available

Germ Cell Mutagenicity: No data available

Interactive Effects: None known



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**12. ECOLOGICAL INFORMATION**

**12.1 ECOTOXICITY**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is not intended for use in aquatic settings.

**Ecotoxicological Data**

Components	Species	Test Results
No data available		

Drift or runoff may adversely affect non-target plants.  
 Do not apply directly to water.  
 Do not contaminate water when disposing of equipment wash water.  
 Do not apply when weather conditions favor drift from target area.

**12.2 PERSISTENCE AND DEGRADABILITY**

Biodegradability: Product is inorganic. Product dissociates into potassium and phosphorus ions, which cannot be further degraded.

**12.3 BIOACCUMULATIVE POTENTIAL**

Bioaccumulation: Does not accumulate in organisms. Highly water soluble and dissociating. Dissociates into potassium and phosphorus ions, which are ubiquitous in the environment.

**12.4 MOBILITY IN SOIL**

Highly water soluble and dissociating. Low potential for adsorption.

**12.5 OTHER ADVERSE EFFECTS**

Assessment: No data available.

**13. DISPOSAL CONSIDERATIONS**

**13.1 WASTE TREATMENT METHODS**

Do not reuse empty bag. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Do not contaminate water, food or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**14.1 LAND TRANSPORT**

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, DRY (NMFC 68140, SUB 5; CLASS 50)

**15. REGULATORY INFORMATION**

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS**

**NFPA & HMIS Hazard Ratings:**

NFPA		HMIS	
0 Health	0 Least	0 Health	
0 Flammability	1 Slight	0 Flammability	
0 Instability	2 Moderate	0 Reactivity	
	3 High	B PPE	
	4 Severe		

**SARA Hazard Notification/Reporting**

SARA Title III Hazard Category:

Immediate	<u>  N  </u>	Fire	<u>  N  </u>	Sudden Release of Pressure	<u>  N  </u>
Delayed	<u>  N  </u>	Reactive	<u>  N  </u>		



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**Reportable Quantity (RQ) under U.S. CERCLA:** No listings

**SARA, Title III, Section 313:** No listings

**RCRA Waste Code:** Not listed

**CA Proposition 65: WARNING:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm.

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## 16. OTHER INFORMATION

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**SDS STATUS:** Sections 6, 7, and 8 revised

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental Health and Safety

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