SECTION 1  PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Potassium dihydrogen phosphate
CAS NUMBER: 7778-77-0
SYNONYM: KDP, Monopotassium phosphate

MANUFACTURER:
Prochem, Inc.
826 Roosevelt Road
Rockford, IL 61109
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2  HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Signal Word  Warning

Hazard Statements

H303  May be harmful if swallowed.
H315  Causes skin irritation
H320  Causes eye irritation
H335  May cause respiratory irritation

Precautionary Phrases

P264  Wash hands thoroughly after handling.
P270  Do not eat, drink, or smoke when using this product.
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P362  Take off contaminated clothing and wash before use.
P301 + P312  IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
P302 + P352  IF ON SKIN: wash with plenty of soap and water.
P305 + P351 + P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:
Health: 0  Flammability: 0  Reactivity:0

NFPA RATING:
Health: 0  Fire: 0  Reactivity Hazard: 0

POTENTIAL HEALTH EFFECTS: Inhalation and ingestion
EYE CONTACT: Causes irritation to eyes.
SKIN CONTACT: May cause irritation of the skin.
INHALATION: Inhalation of dust can lead to irritation of the respiratory tract and mucous membranes.
INGESTION: May be harmful if swallowed.
CHRONIC HEALTH EFFECTS: None known.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: \( \text{KH}_2\text{PO}_4 \)

Molecular Weight: 136.09

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<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS#</th>
<th>%</th>
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<tr>
<td>Potassium dihydrogen phosphate</td>
<td>7778-77-0</td>
<td>100</td>
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SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get medical attention if redness or irritation persists.

SKIN EXPOSURE: Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation or redness persists.

INHALATION: Remove victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek medical assistance.

INGESTION: Do not induce vomiting. Seek medical assistance immediately.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable
AUTO IGNITION TEMPERATURE: Not applicable
EXPLOSION LIMITS: Not applicable
EXTINGUISHING MEDIUM: Water spray, carbon dioxide, dry chemical powder or foam.
SPECIAL FIRE FIGHTING PROCEDURES: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hazardous decomposition products formed under fire conditions. Oxides of phosphorous, Potassium oxides.
UNUSUAL FIRE OR EXPLOSION HAZARDS: Not flammable or combustible

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid raising dust. Wear personal protective equipment.
ENVIRONMENTAL PRECAUTIONS: Do not let enter drains
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: In the case of a spill, vacuum or sweep up and place in a well-marked container for disposal. Dispose of in accordance with all waste disposal regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use appropriate ventilation.
CONDITIONS FOR SAFE STORAGE: Keep material in a rightly sealed container. Keep in a cool, dry, well-ventilated area. Hygroscopic. Picks up moisture readily from atmosphere.
SECTION 8    EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles when handling a chemical substance in the laboratory.
SKIN PROTECTION: Wear appropriate chemical resistant gloves.
VENTILATION: Mechanical exhaust.
RESPIRATOR: If ventilation is not available, a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.
ADDITIONAL PROTECTION: Use in controlled environment. IRRITANT. Avoid contact with skin, eyes, and clothing. Do not breathe dust. Eyewash capable of sustained flushing in area. Do not eat, drink, or smoke in area. Wash thoroughly after handling.

SECTION 9    PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White crystalline solid
MOLECULAR WEIGHT: 136.09
MELTING POINT: 252.6
SPECIFIC GRAVITY: 1.98
BOILING POINT: 400° C decomposes
DENSITY: 2.338 g/cm3
SOLUBILITY IN WATER: 22 g/100ml @ 25° C

SECTION 10    STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Moisture
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Toxic fumes of phosphorus oxides and potassium oxides.

SECTION 11    TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No data
MUTAGENIC EFFECTS: No data
TETRATOGENIC EFFECTS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12    ECOLOGICAL DATA

No information available

SECTION 13    DISPOSAL CONSIDERATIONS

Dispose of in according to local state and federal regulations.

SECTION 14    TRANSPORTATION DATA

Not a hazardous material for transportation

SECTION 15    REGULATORY INFORMATION

TSCA: Listed in TSCA inventory
SARA (TITLE 313): No data
RCRA: No data

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SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 10/13