MATERIAL SAFETY DATA SHEET

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SECTION 1

Product Identification

CHEMICAL NAME: POTASSIUM DIHYDROGEN PHOSPHATE

CAS REGISTRY NUMBER: 7778-77-0

FORMULA: KH2PO4

SYNONYM: (KDP), Monopotassium phosphate

RTECS NUMBER: TC6615500

SECTION 2

Composition and Information on Ingredients

INGREDIENT:

CAS#

%

ACGIH (TWA)

OSHA (PEL)

Title Compound

7778-77-0

100

Not Established

Not Established

SECTION 3

Hazards Identification

EMERGENCY OVERVIEW: May cause irritation to skin, eyes and respiratory system.

PRIMARY ROUTES OF EXPOSURE: Inhalation, ingestion

EYE CONTACT: Causes irritation of the 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 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 immediatley

SECTION 5

Firefighting Measures

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Water spray, carbon dioxide, dry chemical powder or foam.

SPECIAL FIREFIGHTING PROCEDURES: If this product is involved in a fire, fire fighters should be equiped

with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Emits toxic fumes upon

decomposition.

UNUSUAL FIRE OR EXPLOSTION HAZARDS: None known

SECTION 6

Accidental Release Measures

SPILL AND LEAD PROCEDURES: In the case of a spill, vacuum or sweep up and place in a well-marked container for disposal. Avoid raising dust.

DISPOSAL: Dispose of in accordance with all waste disposal regulations.

SECTION 7

Handling and Storage

HANDLING AND STORAGE: Keep in a tightly sealed container. Keep material 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 chemicals substance in the laboratory.

SKIN PROTECTION: Wear appropriate chemical resistant gloves.

VENTILATION: Mechanical exhaust

RESPIRATOR: If ventilation if 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 a controlled environment. **IRRITANT.** Avoid contact with skin, eyes, clothing. Do not breathe dust. Eyewash capable of sustained flushing in area. Do not eat, drink, smoke in area. Wash throughly after handling.

SECTION 9

Physical and Chemical Properties

COLOR AND FORM: White crystalline solid

MOLECULAR WEIGHT: 136.09
MELTING POINT (DEG. C.): 252.6
SPECIFIC GRAVITY (WATER = 1): 1.98

BOILING POINT: No Data

VAPOR PRESSURE: Not applicable

DENSITY: 2.338 q/cm3

% VOLATILE BY VOLUME: Non volatile SOLUBILITY IN WATER: No data

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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 Information

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 Information

ECOLOGICAL INFORMATION: No information available

SECTION 13 Disposal Considerations

DISPOSAL: Dispose of in according to local state and federal regulations.

SECTION 14 Transportation Information

Not a hazardous material for transportation. Non-hazardous for air transport, motor freight (IATA, ICAO)

SECTION 15 Regulatory Information

TSCA: Listed in TSCA inventory SARA (TITLE 313): No Data

RCRA: No Data

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.

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