

PHOSCAP

0-50-30 MKP PLUS SYSTEMIC IMPLANTS

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Family: Inorganic Salts

Formula: **0-50-30 MKP PLUS**
 NFPA Ratings: Health: 2, Fire: 0, Reactivity: 1.
 Hazard Scale: 0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe

MANUFACTURER	EMERGENCY TELEPHONE NUMBERS
Creative Sales, Inc. P.O. Box 501 222 N. Park Avenue Fremont, NE 68025-0501 U.S.A.	Product Information: (402) 727-4800 Medical Emergency: (800) 759-7739

SECTION 2: HAZARDOUS INGREDIENTS

Does product contain hazardous ingredients: **NO**

Ingredients	CAS#
Mono-potassium Potassium Phosphate Anhydrous	7778-77-0
Boron	12280-03-4
Sodium Molybdate	7631-95-0
Feric EDTA, Sodium Salts	15708-41-5
Copper EDTA, Sodium Salts	14025-15-1
Zinc EDTA, Sodium Salts	14025-21-9
Manganese EDTA, Sodium Salts	15375-84-5

Does product contain carcinogens? (NTP/IARC/ORC) **NO**

The ACGIH Threshold Limit Values for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10mg/m³ total, 5 mg/m³ respirable.

SECTION 3: HEALTH HAZARD INFORMATION

IMMEDIATE CONCERNS: MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE SKIN AND EYE IRRITATION.

- Avoid contact with eyes, skin and clothing.
- Wash everything thoroughly after handling.
- Avoid breathing dust.
- Do not swallow.

POTENTIAL HEALTH EFFECTS:

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: Possible nausea, vomiting, diarrhea.

INHALATION: Prolonged or excessive inhalation may cause respiratory tract irritation.

MEDICAL CONDITION AGGRAVATED: Inhalation of dust may aggravate asthma.

SUMMARY OF RISKS: Prolonged or repeated contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat and lungs. Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia and kidney injury. Ingestion of product can cause severe gastrointestinal irritation, muscular weakness and blue-tinged skin (cyanosis). Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death.

SECTION 4: FIRST AID PROCEDURES

EYES: If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists.

INGESTION: Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to 2 glasses of water, then induce repeated vomiting until vomit is clear. Call a physician.

SKIN: Remove contaminated clothing. Flush affected area with plenty of water for 15 minutes. Wash with plenty of soap and water.

INHALATION: Remove person to fresh air. Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog or spray.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce ammonia as well as toxic oxides of carbon, nitrogen and other metal oxides.

EXPLOSION HAZARDS: Dusts at sufficient concentrations may form explosive mixtures with air.

FIRE FIGHTING PROCEDURES: Evacuate area. Flood with water to cool containers. Apply water from a safe distance to avoid splattering of molten material. Wear self-contained breathing apparatus to fight fire.

FIRE FIGHTING EQUIPMENT: Wear self-contained breathing apparatus to fight large fires.

FLASH POINT: Decomposes on heating.

COMMENTS: NFPA 430 Classification – 1 Oxidizer.

SECTION 6: ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Avoid dusting or misting condition during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to local, state or Federal regulations. Keep spills away from drinking water supplies. After spill flush area with water.

SECTION 7: HANDLING AND STORAGE

HANDLING: See Label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes or clothing. Do not contaminate water sources when disposing of equipment. Keep out of lakes, streams or ponds.

STORAGE: KEEP OUT OF REACH OF CHILDREN. Avoid container breakage. Store in a cool, dry area in closed container or package. Keep away from feed or foodstuffs.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Eye and face protection is not required for routine use. High airborne dust levels or mist of product dissolved in liquid may be irritating – use chemical goggles.

SKIN: None required for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves.

RESPIRATORY: If airborne dust levels are high or irritation occurs, use **NIOSH/MSHA** approved respirator for dust, mist and fumes to reduce exposure to acceptable levels.

OTHER USE PRECAUTIONS: Running water or eye wash station should be available in case material gets in eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL FORMULA: HK_2PO_4

PHYSICAL STATE: Solid

APPEARANCE: Crystals

COLOR: Medium-Blue

SOLUBILITY IN WATER: Typically 80-85% for water soluble fertilizers.

DENSITY: 60 – 63 lbs/cubic foot

SECTION 10: STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Extreme heat. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium. Strong reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire, ammonia and toxic oxides on nitrogen, carbon, potassium and sulfur may be generated.

INCOMPATIBLE MATERIALS: Strong oxidizing (permanganate, dichromate, nitrate, chlorine) and reducing agents, sodium nitrate and many chlorine compounds (including household bleach and other cleaning products). Active metal, such as aluminum and magnesium.