

# Material Safety Data Sheet

## Provided by:

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DPC Enterprises          DX Systems Company  
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## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name**      TETRAPOTASSIUM PYROPHOSPHATE  
**Synonyms**          TETRAPOTASSIUM DIPHOSPHATE, TKPP  
**Chemical Name**      TETRAPOTASSIUM PYROPHOSPHATE

**Emergency phone:**    281-457-4888      **Date of Issue:**      01/8/2000  
**Chemtrec:**            800-424-9300      **Revised Date:**      N/A

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| COMPONENTS                   | PERCENT | CAS NO.   |
|------------------------------|---------|-----------|
| TETRAPOTASSIUM PYROPHOSPHATE | > 95%   | 7320-34-5 |

## SECTION 3 - HAZARDS IDENTIFICATION

### Potential Health Effects

**ACGIH - TLV:**      NOT ESTABLISHED.  
**Eye Contact**      MODERATELY IRRITATING TO THE EYES.  
**Skin Contact**      PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION.  
**Ingestion**          NO HAZARD EXPECTED IN NORMAL INDUSTRIAL USE.  
**Inhalation**          PROLONGED OR REPEATED INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION.  
**Carcinogenicity:**    *NTP* NO    *IARC* NO    *OSHA* NO

## SECTION 4 - FIRST AID PROCEDURES

**Eye Contact:**      IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.  
**Skin Contact:**      IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.  
**Inhalation:**          REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.  
**Ingestion:**          DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point**          NONFLAMMABLE.  
**Extinguishing Media**    USE MEDIA APPROPRIATE FOR SURROUNDING AREA.

**Special Firefighting  
Procedures/Precuations**

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS. GENERATES HEAT UPON ADDITION OF WATER WITH POSSIBLE SPLATTERING. RUNOFF FROM FIRE CONTROL MAY CAUSE POLLUTION.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**For Spill:** SWEEP UP OR VACUUM AND PLACE IN CONTAINERS FOR DISPOSAL. PREVENT MATERIAL FROM ENTERING WATERWAYS OR SEWERS.

**SECTION 7 - HANDLING AND STORAGE**

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Respiratory Protection** USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
- Ventilation** LOCAL AND MECHANICAL RECOMMENDED.
- Protective Gloves** CHEMICAL IMPERVIOUS GLOVES.
- Eye/Face Protection** CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
- Other Protection** CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
- Work Practices** USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- |                                    |                                  |                       |
|------------------------------------|----------------------------------|-----------------------|
| <b>Boiling Point (°F):</b> > 2500  | <b>Vapor Pressure (mmHg):</b>    | NOT APPLICABLE        |
| <b>Freezing Point (°F):</b> > 1000 | <b>Vapor Density (Air=1):</b>    | NOT APPLICABLE        |
| <b>Solubility (H2O):</b> SOLUBLE   | <b>Specific Gravity (H2O=1):</b> | BULK DENSITY 0.96 g/m |
| <b>pH</b> 10 - 12                  | <b>Evaporation Rate:</b>         | NON-VOLATILE          |
- Appearance/Odor:** WHITE POWDER OR GRANULES WITH NO APPRECIABLE ODOR.

**SECTION 10 - STABILITY AND REACTIVITY**

- Chemical Stability:** YES
- Incompatible Materials** NONE KNOWN.
- Decomposition Products** NOT APPLICABLE
- Hazardous Polymerization:** WILL NOT OCCUR.

**SECTION 11 - TOXICITY INFORMATION**

LD50 SKIN (rabbit) => 500 mg/kg

**SECTION 12 - ECOLOGICAL INFORMATION**

AQUATIC TOXICITY: LC50 => 100 MG/L/96HR/RAINBOW TROUT EC50 => 100 MG/L/48HR/DAPHNIA MAGNA

**SECTION 13 - DISPOSAL CONSIDERATIONS**

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 14 - TRANSPORT INFORMATION**

**USA DOT Shipping Name:** NOT REGULATED.

**Hazard Class:**

**UN/NA Number:**

**Packing Group:**

**Subsidiary Hazard**

**Marine Pollutant:** NO

**SECTION 15 - REGULATORY INFORMATION**

**CERCLA RQ (lbs):** NOT APPLICABLE

**SARA Title III Section 312:**

**Acute**     **Chronic**     **Flammable**     **Sudden Release of Pressure**     **Reactive**

**SARA Title III Section 313:** No

**SARA Extremely Hazardous Substance:** No

**HMIS HAZARD RATING**

**Health:** 2                      **Fire:** 0                      **Reactivity:** 0

**0 - Least    1 - Slight    2 - Moderate    3 - High    4 - Extreme**

**SECTION 16 - OTHER INFORMATION**

**EPA Pesticide Registration Number:** NOT APPLICABLE

**NSF Maximum Use Level for Potable Water (Standard 60):** NOT APPLICABLE

**TSCA (Toxic Substance Control Act), 40 CFR 710:**

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

**DISCLAIMER**

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