

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Identifier: TKPP
Chemical Name: Tetrapotassium Pyrophosphate
Recommended Use: Drilling Fluids Additive
Supplier: Bri-Chem Supply Ltd.
27075 Acheson Road
Acheson, AB T7X 6B1
Phone Number: 780-962-9490
Emergency Phone: CHEMTREC 1-800-424-9300, 24/7

Section 2: HAZARD(S) IDENTIFICATION

Classification: This product is considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Eye Irritation: Category 2A

Label Elements

GHS Pictograms:



Signal Word: Warning

Hazard Statements: Causes serious eye irritation.

Precautionary Statements

Prevention: Wash thoroughly after handling, wear eye protection/face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazards Not Other Classified: None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name: Tetrapotassium Pyrophosphate

Synonym: TKPP

Formula: K4O7P2

Molecular Weight: 330.34 g/mol

CAS No.: 7320-34-5

Concentration: 90-100%

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Section 4: FIRST-AID MEASURES

First Aid Measures

- Eye Contact:** Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/physician immediately.
- Skin Contact:** Wash off immediately with plenty of water. Remove all contaminated clothes and shoes. If skin irritation persists, call a doctor/physician.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most Important Symptoms and Effects, Acute and Delayed

Symptoms: No information available.

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Hazards Arising from the Chemical

Hazardous Combustion Products: Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to:
Oxides of phosphorus
Potassium oxides

Protective Equipment and Precautions for Fire-Fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.

Methods and Materials for Containment and Cleanup

Methods for Clean-Up: Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust.

Environmental Precautions: Prevent entry into waterways or sewers.

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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes, skin and clothing. Do not breathe vapors / spray / mist / fume. Wear eye/face protection. Use personal protection recommended in Section 8. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.
Conditions for Safe Storage, Including any Incompatibilities:	Store in a cool/low-temperature, well-ventilated, dry place. Keep containers tightly closed and labeled when not in use. This material is hygroscopic.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:	This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies.
Appropriate Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.
Personal Protective Equipment	
Eye/Face Protection:	Safety glasses are recommended in professional settings. If dust or splashes are likely to occur wear chemical safety goggles.
Skin Protection:	Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves. Wear long sleeved protective clothing.
Respiratory Protection:	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White granules
Physical State:	Solid
Odor:	No odor
Odor Threshold:	No information available
pH:	10-11
Melting Point/Freezing Point:	Melting point: >300°C (572°F)
Boiling Point/Boiling Range:	Not applicable

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Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	No information available
Flammability or Explosive Limits	
Upper:	No information available
Lower:	No information available
Vapor Pressure:	Not available
Vapour Density:	Not available
Relative Density:	2.61 g/cm ³ @ 21°C (70°F)
Solubility in Water:	10 g/l
Partition Coefficient:	No information available
Auto-Ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity:	None known under normal conditions.
Chemical Stability:	Stable under ordinary conditions of use and storage.
Possibility of Hazardous Reactions:	None under normal processing.
Conditions to Avoid:	Avoid dust formation.
Incompatible Materials	Strong bases
Hazardous Decomposition Products:	Hazardous combustion can lead to the release of irritating gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Skin Contact:	May cause skin irritation.
Eye Contact:	Causes serious eye irritation.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	May be harmful if swallowed.
Symptoms Related to the Physical, Chemical and Toxicological Characteristics:	No information available.

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Delayed and Immediate Effects and also Chronic Effects Form Short and Long-Term Exposure

Skin Damage/Irritation:	Not classified
Eye Damage/Irritation:	Causes serious eye irritation.
Sensitization:	Not classified
Mutagenic Effects:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
STOT – Single Exposure:	Not classified
STOT – Repeated Exposure:	Not classified
Aspiration Hazard:	Not classified

Acute Toxicity

Component Information

Component	CAS-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
TKPP	7320-34-5	> 2,000 mg/kg	> 2,000 mg/kg	> 1.1 mg/L

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Should not be released to environment.		
Component	Freshwater Fish	Freshwater Algae	Water Flea
TKPP 7320-34-5	100 mg/L	100 mg/L	EC50: >100 mg/L – 48h (Daphnia magna)
Persistence and Degradability:	No information available.		
Bioaccumulative Potential:	No information available.		
Mobility in Soil:	No information available.		
Other Adverse Effects:	No information available.		

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Processing, use or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

DOT:	Not regulated
IATA:	Not regulated
IMDG:	Not regulated

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Section 15: REGULATORY INFORMATION

International Inventories

TSCA: Listed

DSL: Listed

US Federal Regulations

TSCA Section 12(b) Export Notification: Not regulated

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Not applicable

SARA 311/312 Hazard Categorization

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Pressure: No

Reactivity: No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Not applicable

CWA (Clean Water Act): Not applicable

US State Regulations

California Proposition 65: This product does not contain any proposition 65 chemicals.

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Section 16: OTHER INFORMATION

NFPA Ratings

Health: 2

Flammability: 0

Reactivity: 0

Disclaimer:

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Prepared by: Bri-Chem Supply Ltd.

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