

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **TKPP**
OTHER MEANS OF IDENTIFICATION: Tetrapotassium pyrophosphate
RECOMMENDED USE: Oilwell drilling fluid and cement additive
RESTRICTIONS ON USE: None known
SUPPLIER IDENTIFIER: **Di-Corp**
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923
EMERGENCY PHONE NUMBER: 780-468-4064 (24 hr)

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Serious eye damage/Eye irritation – Category 2A

LABEL SYMBOLS:



SIGNAL WORD:

WARNING

CLASSIFICATION INFORMATION:

Causes serious eye irritation.

Wash face, hands and exposed skin thoroughly after handling.

Wear eye protection / face protection.

PRECAUTIONARY STATEMENTS:

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

OTHER HAZARDS:

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Tetrapotassium pyrophosphate	7320-34-5	95 - 100

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Quickly and gently brush away excess chemical. Thoroughly flush with running water while removing contaminated clothing. If irritation develops and persists, obtain medical attention.

EYE CONTACT: Flush with gently flowing warm water for minimum 15 minutes. Hold eyelids open to ensure thorough flushing. Obtain medical attention when flushing is complete and no further irritation is felt.

INGESTION: Do not induce vomiting. Rinse mouth with water. Give 1 to 2 glasses of water. Obtain medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

INHALATION: Move to area free from dust. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain medical attention if breathing difficulties or distress continues.

MOST IMPORTANT SYMPTOMS / EFFECTS: Cause moderate to severe eye irritation.

IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None known.
SPECIFIC FIRE HAZARDS:	None known. Material is not combustible.
HAZARDOUS COMBUSTION PRODUCTS:	Decomposes on heating emitting toxic fumes, including oxides of phosphorous.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Restrict access to area until completion of clean-up. Prevent from entering sewers or waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect dry material by shoveling, liquid material can be removed with a vacuum truck. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Wear personal protective equipment. Avoid creating dust. Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid ingestion. Wash clothing before reuse.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area away from incompatibles. Keep container tightly closed and properly labelled. Hygroscopic; absorbs moisture from the air. Empty packages contain residual hazardous material and should be handled and stored as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Not established.
ENGINEERING CONTROLS:	Use only with adequate ventilation. If user operations generate dust use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.
PERSONAL PROTECTIVE MEASURES	
RESPIRATORY PROTECTION:	Approved dust masks required for dust levels below TLV. Use a properly fitted particulate filter respirator complying with an approved standard if airborne concentrations exceeds TLV or if a risk assessment indicates this is necessary.
PROTECTIVE GLOVES:	Rubber gauntlets recommended.
EYE PROTECTION:	Wear tight fitting chemical goggles. Do not wear contact lenses.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White powder or granules
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable.
pH:	10.2 – 10.7 (1% solution)
MELTING POINT / FREEZING POINT:	1100°C
BOILING POINT / RANGE:	Not available
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not applicable
FLAMMABILITY:	Not combustible

FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not applicable
VAPOUR DENSITY:	Not applicable
RELATIVE DENSITY:	2.33
SOLUBILITY:	Soluble in water
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	May react violently with strong reducing agents. Hygroscopic: absorbs moisture from the air.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Not available.
CONDITIONS TO AVOID:	Avoid dust generation. Avoid exposure to moisture.
INCOMPATIBLE MATERIALS:	Incompatible with strong oxidizers and strong reducing agents. TKPP is moderately basic and may react violently with strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of phosphorus.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	LD50 (oral, rat) > 2440 mg/kg LD50 (dermal, rabbit) > 2000 mg/kg LC50 (inhalation, rat) > 1100mg/m ³ /4hr
SKIN CONTACT:	May cause mild irritation.
EYE CONTACT:	Causes serious eye irritation.
INGESTION:	Ingestion of large amounts may cause stomach pain and vomiting.
INHALATION:	Dusts may cause temporary irritation of the nose and throat. The severity of these effects would depend on the airborne concentration and the duration of exposure.
CARCINOGENICITY:	Not tested as a carcinogen by NTP, IARC, or OSHA.
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	No information available.
PERSISTENCE AND DEGRADABILITY:	Not applicable to inorganic materials.
BIOACCUMULATIVE POTENTIAL:	Does not bioaccumulate.
MOBILITY IN SOIL:	Dissociates into ions.
OTHER ADVERSE EFFECTS:	No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be recycled, or disposed of, in accordance with local regulations.

SECTION 14: TRANSPORTATION INFORMATION

TDG	Not regulated
DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	None

SECTION 15: REGULATORY INFORMATION

DSL:	Listed
WHMIS 1988 CLASS:	Not controlled
TSCA:	Listed

SECTION 16: OTHER INFORMATION

REVISION DATE:	May 8, 2018
REPLACES:	November 24, 2017

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