

Section 01 Identification

Product Identifier Tetrapotassium Pyrophosphate 60% Solution

Other Means of Identification TKPP; 7320-34-5; Diphosphoric acid, tetrapotassium salt

Product Use and Restrictions

on Use

Chelate and anti-scaling agent for industrial and commercial use.

Initial Supplier Identifier ClearTech Industries Inc

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Prepared By ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 306.664.2522

Section 02 Hazard Identification

Physical Hazards

This product does not qualify for any physical hazard class under WHMIS 2015

Health Hazards

Serious eye damage / eye

irritation

Category 2

Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation.

Pictograms



Precautionary Statements

Prevention

P264 Wash affected body parts thoroughly after handling.

P280 Wear, eye protection, face protection

Response

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P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P337 P313 and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Not available

Section 03 Composition / Information on Ingredients

Hazardous Ingredients:

Chemical name Common name(s) **CAS** number Concentration (w/w%)

7320-34-5 Diphosphoric acid, tetrapotassium salt **TKPP** 58-62%

Section 04 First-Aid Measures

Description of necessary first-aid measures

Inhalation Get medical advice / attention if you feel unwell or are concerned.

Ingestion Get medical advice / attention if you feel unwell or are concerned.

Skin Rinse skin with lukewarm, gently flowing water / shower for 5 minutes or until product is removed. If skin

contact irritation occurs or if you feel unwell: Get medical advice / attention.

Eye Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing contact water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do.

Continue rinsing for 15 to 20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto

the face. If eye irritation persists: Get medical advice / attention.

Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation. May cause discomfort or nausea. Ingestion

Skin contact Not available

Eye contact Causes serious eye irritation.

Further information For further information see Section 11 Toxicological Information.

Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing

media

Water jets are not recommended in fires involving chemicals.

the chemical

Specific hazards arising from In the event of a fire oxides of phosphorous may be released.

Special protective equipment

for fire-fighters

Wear NIOSH-approved self-contained breathing apparatus and chemical-protective

clothing.

Section 06 Accidental Release Measures

Personal Precautions / Protective Equipment / **Emergency Procedures** Wear appropriate personal protective equipment (See Section 08 Exposure Controls and

Personal Protection). Stay upwind, ventilate area.

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Environmental Precautions

Prevent material from entering waterways, sewers or confined spaces. Notify local health

and wildlife officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning Up

SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

Section 07 Handling and Storage

Precautions for Safe Handling Use proper equipment for lifting and transporting all containers. Use sensible industrial

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills

and leaks readily available.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area, away from heat sources and incompatible

> materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect

label and keep it visible.

Incompatibilities Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Section 08 Exposure Controls and Personal Protection

Exposure limits

There are no known exposure limits for this product.

Engineering controls

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

> control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other An eye wash bottle or eye wash station should be available, tested, and be in close

proximity to the product being handled in accordance with provincial regulations.

Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

Eye and face protection Where there is potential eye or face exposure, tightly fitting chemical goggles are

recommended. Contact lenses are not recommended; they may contribute to severe eye

injury.

Hand and body protection

Where handling this product it is recommended that skin contact is avoided.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards Not available

Section 09 Physical and Chemical Properties

Appearance

Physical state Liquid

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ColourClear, colourlessOdourNot availableOdour thresholdNot available

Property

pH 10-10.8 @ 1%

Melting point / freezing point $< 0 \,^{\circ}$ C Initial boiling point and $110 \,^{\circ}$ C

boiling range

Flash point Does not flash **Evaporation rate** Not available **Flammability** Not applicable Upper flammable limit Not available Lower flammable limit Not available Vapour pressure Not available Vapour density Not available Relative density Not applicable

Partition coefficient: n-

octanol/water

Solubility

Not available

Soluble in water

Auto-ignition temperatureNot availableDecomposition temperatureNot availableViscosityNot available

Specific gravity 1.7-1.8 g/mL @ 20 °C

Particle characteristics Not applicable

Formula $K_4P_2O_7$ Molecular weight 330.34 g/mol

Section 10 Stability and Reactivity

Reactivity Not available

Stability This product is stable if stored according to the recommendations in Section 07.

Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

Conditions to avoid Avoid contact with incompatible materials.

Incompatible materials Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Hazardous decomposition

products

Thermal decomposition may produce oxides of phosphorous.

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
TKPP	Oral	Rat	>2,000 mg/kg bw	
	Dermal	Rat	>2,000 mg/kg bw	

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Toxic Health Effect Summary

Chemical

No known effects

characteristics

Skin Not available

Ingestion May cause discomfort or nausea. May cause respiratory irritation. Inhalation Causes serious eye irritation. Eye contact

Sensitization This product and its components at their listed concentration have no known sensitizing effects. Mutagenicity This product and its components at their listed concentration have no known mutagenic effects. Carcinogenicity This product and its components at their listed concentration have no known carcinogenic effects.

Reproductive toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ

toxicity

This product and its components at their listed concentration have no known effects on specific

organs. Not available

Aspiration hazard Synergistic materials

Not available

Section 12 Ecological Information

Ecotoxicity

Component	Type	Species	Value	Exposure Time
TKPP	LC50	Fish	100 mg/L	96 hours
	EC50	Aquatic invertabrates	100 mg/L	48 hours
	EC10	Algea	100 mg/L	72 hours

Biodegradability The domestic substance list categorizes TKPP as persistent.

Bioaccumulation The domestic substance list categorizes TKPP as non-bioaccumulative.

Mobility This product is water soluble, is not predicted to adsorb to soil and may contaminate ground

water.

Other adverse effects Not available

Section 13 Disposal Considerations

Waste From Residues /

Unused Products

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Do not remove label, follow label warnings even after the container is empty. Empty

containers should be recycled or disposed of at an approved waste handling facility.

Section 14 Transport Information

UN number Not available UN proper shipping name

and description

Not available

Transport hazard class(es) Not available

Packing group Not available

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Excepted quantities Not available

Environmental hazards Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special precautions No special provisions

Transport in bulk ERAP index: not available

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Additional information Secure containers (full or empty) during shipment and ensure all caps, valves, or closures

are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

Section 15 Regulatory Information.

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

All components of this product appear on the domestic substance list.

Section 16 Other Information

Date of latest revision: January 17, 2022

Note: The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN

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