



TKPP 60% (AFCO 0570)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 02/18/2025

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: TKPP 60%

Product Code: AFCO 0570

Intended Use of the Product

Use of the Substance/Mixture: Water treatment. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

AFCO

550 Development Avenue

Chambersburg, PA 17201

T: 800-345-1329

www.afcocare.com

Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Eye Irrit. 2A H319

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS07

Signal Word (GHS-US)

: Warning.

Hazard Statements (GHS-US)

: H319 - Causes serious eye irritation

Precautionary Statements (GHS-US)

: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Obtain medical advice/attention.

Other Hazards

Other Hazards Not Contributing to the Classification: No additional information available.

Unknown Acute Toxicity (GHS-US): Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No). 7732-18-5	40	Not classified
Tetrapotassium pyrophosphate	(CAS No) 7320-34-5	60	Eye Irrit. 2A, H319

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air. If feeling unwell, immediately seek medical attention.

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Skin Contact: Drench affected area with plenty of water. Remove contaminated clothing and shoes. If on skin, take off contaminated clothing.

Eye Contact: Rinse cautiously with water for 10 to 15 minutes. If feeling unwell, immediately seek medical attention.

Ingestion: Immediately rinse mouth. Do NOT induce vomiting. If feeling unwell, immediately seek medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes eye irritation.

Inhalation: None expected.

Skin Contact: None expected.

Eye Contact: Causes eye irritation.

Ingestion: Likely to be harmful or have adverse effects.

Chronic Symptoms: Not available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media: None.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: On exposure to high temperature, may decompose, releasing toxic gases. Stable under normal conditions (Handling and storage).

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Tight protective clothing required. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.

Hazardous Combustion Products: None.

Other information: Not flammable.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all skin, eye, and clothing contact.

For Non-Emergency Personnel

No additional information available.

For Emergency Personnel

Protective equipment: Wear safety goggles, protective gloves, and impervious safety shoes or rubber boots.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, such as clay then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Rinse spill area with plenty of water.

Reference to Other Sections

See sections 8 & 13 for more information.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Avoid contact with skin, eyes and clothing. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Remove contaminated clothing and shoes. Wash clothing before re-using. Packagings, even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packagings as if they were full.

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Hygiene Measures: When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and shoes.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Incompatible Materials: Acids.

Specific End Use(s): No additional information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Tetrapotassium pyrophosphate (7320-34-5)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable) - 3 mg/m ³ (respirable dust)
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (inhalable) - 5 mg/m ³ (respirable dust)

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Protective goggles. Protective clothing. Gloves.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Safety glasses with side shields.

Skin and Body Protection: Protective clothing (with elasticated cuffs and closed neck).

Respiratory Protection: None usually needed.

Environmental Exposure Controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid.
Appearance	: Clear, colorless-viscous.
Odor	: None.
Odor Threshold	: Not data available.
pH	: 10.35 - 10.40
Relative Evaporation Rate (butylacetate=1)	: Not data available.
Melting Point	: Not data available.
Freezing Point	: -50°C (760 mmHg)
Boiling Point	: >230°C (760 mmHg)
Flash Point	: Not applicable.
Auto-ignition Temperature	: Not data available.
Decomposition Temperature	: Not data available.
Flammability (solid, gas)	: Not data available.
Lower Flammable Limit	: Not data available.
Upper Flammable Limit	: Not data available.
Vapor Pressure	: Not data available.
Relative Vapor Density at 20°C	: Not data available.
Density	: 0.8 - 1.2 g/cm ³
Solubility	: Miscible in water: >60% 20°C
Log Pow	: Not data available.
Log Kow	: Not data available.
Viscosity, Kinematic	: Not applicable.
Viscosity, Dynamic	: Not data available.
Explosive Properties	: Not data available.

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Oxidizing Properties : Not data available.
Explosive Limits : Not data available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions (Handling and storage).
Chemical Stability: Stable under normal conditions (Handling and storage).
Possibility of Hazardous Reactions: Reacts vigorously with strong oxidizers and acids.
Conditions to Avoid: None.
Incompatible Materials: Strong Acids.
Hazardous Decomposition Products: None.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified.

LD50 and LC50 Data:

Tetrapotassium pyrophosphate (7320-34-5)	
LD50 Oral Rat	>2000 mg/kg
LD50 Dermal Rabbit	>2000 mg/kg Similar to: OECD 402
LC50 Inhalation Rat (mg/l)	>1. 1 mg/l rat, OECD 403, EU method B.2

Skin Corrosion/Irritation: Not classified. (pH: 10.35 - 10.40)

Serious Eye Damage/Irritation: Causes serious eye damage. (pH: 10.35 - 10.40)

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Tetrapotassium pyrophosphate (7320-34-5)	
NOAEL (oral, rat, 90 days)	500 mg/kg body weight/day OECD 408

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology – Water: This product does not present any particular risk for the environment.

Tetrapotassium pyrophosphate (7320-34-5)	
LC50 Fish 1	>100 mg/l (Exposure time: 96 h - Species: Oncorhynchus Mykiss [OECD 203])
EC50 Daphnia 1	>100 mg/l (Exposure time: 48 h - Species: Daphnia magna [OECD 202])
EC50 Other Aquatic Organisms 1	>1000 mg/l (Exposure time: 3 h - Activated Sludge [OECD 209])
ErC50 (algae)	>100 mg/l (Exposure time: 72 h - [OECD 201])
NOEC Chronic Fish	100 mg/l (Exposure time: 96 h - Species: Oncorhynchus Mykiss [OECD 203])
NOEC Chronic Algae	>100 mg/l (Exposure time: 72 h - [OECD 201])
Additional Ecotoxicological Information	Phosphates are plant nutrient and as such may contribute to the growth of phytoplanktons in water.

Persistence and Degradability

Tetrapotassium pyrophosphate (7320-34-5)	
Persistence and Degradability	Not relevant. (inorganic substance).

Bioaccumulative Potential

Tetrapotassium pyrophosphate (7320-34-5)	
Bioaccumulative Potential	Small.

Mobility in Soil Not data available.

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Other Adverse Effects No.

Effect on the Global Warming: No known ecological damage caused by this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Comply with local regulations for disposal.

Additional Information: Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.

Ecology - Waste Materials: This material when discarded in pure form is not a hazardous waste as defined by 40 CFR 261, the Resource Conservation and Recovery Act (RCRA). Dry materials may be landfilled or recycled in accordance with local, state, and federal regulations. If materials have become contaminated with other substances, dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

The information in this section is provided as reference only. Refer to appropriate regulations to appropriately classify your shipment for transportation.

U.S. DOT (Non-Bulk) : Corrosive Liquid, Basic, Inorganic, N.O.S. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII.

U.S. DOT (Bulk) : *Corrosive Liquid, Basic, Inorganic, N.O.S. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII.

ICAO/IATA : Corrosive Liquid, Basic, Inorganic, N.O.S. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII.

IMGD : Corrosive Liquid, Basic, Inorganic, N.O.S. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII.

Canadian TDG : Corrosive Liquid, Basic, Inorganic, N.O.S. (Tetrapotassium pyrophosphate solution), 8, UN3266, PGIII.

*In the US, this product is classified solely because of its corrosive effect to aluminium. In accordance with 49 CFR 173.154 (d)(1), when shipped by motor vehicle or rail cars in stainless steel bulk containers, this product will NOT be classified as a hazardous material. If in non-bulk plastic containers that may be transported in aluminium motor vehicle or rail cars, this product will be classified as a hazardous material. The manufacturer packages this product in accordance with 49 CFR 173.203 (Non-bulk) and 173.241 (Bulk).

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Tetrapotassium pyrophosphate (7320-34-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	
SARA Section 302 - Threshold Planning Quantity (TPQ)	Not applicable.
SARA Section 313 - Emission Reporting	Not applicable.

National Regulations

Tetrapotassium pyrophosphate (7320-34-5)	
CERCLA Reportable Quantities: Not applicable.	
SARA Title III: Not applicable.	
ANSI/NSF Std. 60 - Potable Water Systems: Certified.	

Canadian Regulations

Tetrapotassium pyrophosphate (7320-34-5)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 02/18/2025

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

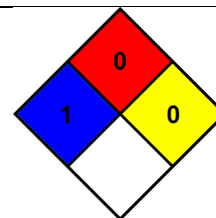
GHS Full Text Phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A.
H319	Causes serious eye irritation.

NFPA Health Hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Fire Hazard : 0 - Materials that will not burn.

NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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HMIS III Rating

Health	: 1 Slight Hazard - Irritation or minor reversible injury possible.
Flammability	: 0 - Minimal Hazard.
Physical	: 0 - Minimal Hazard.

Party Responsible for the Preparation of This Document

AFCO
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS SDS 2015 (U.S., Can., Mex.)