



Water Works™ Storm

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Water Works™ Storm
SDS Number: SF-030
Product Code: WWST
Revision Date: 3/23/2015
Version: 01
Product Use: Mild Alkaline Spray Wash Solution
Supplier Details: Keteca USA, Inc
4280 W. Opportunity Way
Phoenix, AZ 85086

Emergency Telephone Number:
CHEMTREC
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Skin corrosion/irritation, 2
Health, Serious Eye Damage/Eye Irritation, 2 A
Health, Specific target organ toxicity - Single exposure, 3

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:



GHS Hazard Statements:

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

GHS Precautionary Statements:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302 - IF ON SKIN: Wash with plenty of soap and water.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

Hazards not otherwise classified (HNOC) or not covered by GHS

None Known.

3 COMPOSITION/INFORMATION ON INGREDIENTS



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Ingredients:

Cas#	%	Chemical Name
7320-34-5	10-20%	Diphosphoric acid, tetrapotassium salt

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret due to the proprietary nature of one of the components.

Note: The balance of the ingredients are not classified as hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

4 FIRST AID MEASURES

Inhalation:	If inhaled, move person into fresh air and avoid further inhalation. If not breathing, give artificial respiration. Consult a physician.
Skin Contact:	Immediately flush with large amounts of water for 15 minutes. Wash contaminated clothing before reuse.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes.
Ingestion:	If ingested, seek medical attention immediately.

Most important symptoms/effects, acute and delayed: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Indication of immediate medical attention and special treatment needed: The hazards of this material are mainly due to its irritant properties on the skin and mucosal surfaces. There is no specific antidote and treatment should be directed at the control of symptoms and the clinical condition.

5 FIRE FIGHTING MEASURES

Suitable extinguishing media: Not a fire hazard. Dry chemical, carbon dioxide, or water spray is recommended.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical:
Oxides of phosphorus, Potassium oxides, Carbon monoxide, Carbon dioxide.

Special protective equipment and precautions for fire-fighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Stay upwind and away from spill/release. Avoid direct contact with liquid and vapors. For large spillages, notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and material for containment and cleaning up: Notify relevant authorities in accordance with all applicable



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regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Sweep up spilled material. Flush

residue into waste disposal system with large amounts of water. Neutralize large spill areas with dilute mineral acid before flushing into waste disposal system with water. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

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HANDLING AND STORAGE

Handling Precautions:

Use with adequate ventilation. Bring product to room temperature before use. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Do not breathe vapors or mists. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Storage Requirements:

Keep container(s) tightly closed and properly labeled. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. "Empty" containers retain residue and may be dangerous. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

General (mechanical) room ventilation is expected to be adequate. Special local ventilation is suggested at points where vapors can be expected to escape to the workplace air.

Personal Protective Equipment:

Diphosphoric acid, tetrapotassium salt (7320-34-5) [10-20%]

Personal protective equipment

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Immersion protection Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 480 min Material tested: Dermatrill (Aldrich Z677272, Size M)

Splash protection: Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: > 30 min Material tested: Dermatrill (Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Eye/face protection: The use of eye protection, such as Face shield or goggles, that meets or exceeds



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ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury.

Diphosphoric acid, tetrapotassium salt (7320-34-5) [10-20%] : no data available

Skin and Hand protection: The use of rubber gloves impervious to the specific material handled is advised to prevent skin contact. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: If excessive misting occurs, or if associated TLV is exceeded, provide NIOSH approved respiratory equipment with TC-21C-XXX cartridge combination.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Other: Eye wash and quick-drench shower facilities should be available in the work area. Chemical (rubber) aprons should be used.

Thermal hazards: No data available.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, Colorless	Odor:	Light, Clean Smell
Physical State:	Liquid	Molecular Formula:	No data available
Odor Threshold:	No data available	Solubility:	Missible
Particle Size:	No data available	Softening Point:	No data available
Spec Grav./Density:	1.10	Percent Volatile:	No data available
Viscosity:	No data available	Heat Value:	No data available
Sat. Vap. Conc.:	No data available	Freezing/Melting Pt.:	No data available
Boiling Point:	No data available	Flash Point:	None - contains water
Flammability:	No data available	Octanol:	No data available
Partition Coefficient:	No data available	Vapor Density:	No data available
Vapor Pressure:	No data available	VOC:	No data available
pH:	9.5-10.5 @ 20:1	Bulk Density:	No data available
Evap. Rate:	No data available	Auto-Ignition Temp:	No data available
Molecular weight:	No data available	UFL/LFL:	No data available
Decomp Temp:	No data available		

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STABILITY AND REACTIVITY

Stability:	Not chemically reactive.
Conditions to Avoid:	No data Available
Materials to Avoid:	Avoid contamination with strong mineral acids.
Hazardous Decomposition:	Burning can produce oxides of phosphorus, potassium oxides, carbon monoxide and/or carbon dioxide.
Hazardous Polymerization:	No data available



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TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: Inhalation of high concentrations of mists may produce respiratory tract irritation. Ulceration of respirator membranes may occur from prolonged irritation.

Ingestion: Irritation of the mouth and gastrointestinal tract will occur immediately. Permanent damage will occur if medical attention is not obtained promptly.

Skin: May be slightly irritating to the skin.

Eyes: May cause eye irritation. If not promptly treated, extensive eye damage will occur.

Symptoms related to the physical, chemical, and toxicological characteristics:

None known.

Delayed and immediate effects and chronic effects from short or long-term exposure:

None known.

Acute toxicity:**Ingredient Information:**

<u>Substance</u>	<u>Test Type (species)</u>	<u>Value</u>
Tetrapotassium Pyrophosphate	LD50 Oral (Rat)	No data available
	LD50 Oral (Mouse)	No data available
	LD50 Dermal (Rabbit)	>4640 mg/kg
	LC50 Inhalation (MOuse)	No data available

Product Acute Toxicity Estimates:

Acute Oral Toxicity - no data available

Acute Dermal Toxicity - no data available

Acute Inhalation Toxicity - no data available

Skin corrosion/irritation: May be slightly irritating to the skin.

Serious eye damage/eye irritation: May cause eye irritation. If not promptly treated, extensive eye damage will occur.

Respiratory sensitization: No information available on the mixture, however none of the components have been classified for respiratory sensitization.

Skin sensitization: No information available on the mixture, however none of the components have been classified for skin sensitization.

Germ cell mutagenicity: No information available on the mixture, however none of the components have been classified for Germ cell mutagenicity (or are below the concentration threshold for classification).

Carcinogenicity: No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

Reproductive toxicity: No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

Specific target organ toxicity-Single exposure: No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification).

Specific target organ toxicity-Repeat exposure: No information available on the mixture, however one of the components has been classified for respiratory tract irritation.

Aspiration hazard: No information available on the mixture, however none of the components have been classified for Aspiration hazard (or are below the concentration threshold for classification).

Further information: No data available.



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ECOLOGICAL INFORMATION

Ecotoxicity:

Product data: No data available

Ingredient Information:

<u>Substance</u>	<u>Test Type</u>	<u>Species</u>	<u>Value</u>
Tetrapotassium Pyrophosphate	LC50	Fish	No data available
	LC50	Invertebrate Dreissena polymorpha (Zebra mussel)	94 mg/L (48h)
	EC50	Algae	No data available

Toxicity: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: None anticipated.

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DISPOSAL CONSIDERATIONS

Disposal instructions:

Non-biodegradable contaminants introduced into used emulsions must be removed prior to disposal. Acid-alum or alum-polymeric de-emulsifiers may be used.

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

**Water Works™ Storm****14****TRANSPORT INFORMATION****U.S. Department of Transportation (DOT)**

Shipping Description: Not regulated

Note: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, & 23.

International Maritime Dangerous Goods (IMDG)

Shipping Description: Not regulated

Note: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

Not applicable.

International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID #: Not regulated

Note: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 24.

15**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Diphosphoric acid, tetrapotassium salt (7320-34-5) [10-20%] TSCA**USA:**
United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.**Toxic Substances Control Act (TSCA)** - All substances in this product are listed, as required, on the TSCA inventory.**SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:**

Section 302 - No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

CERCLA Hazardous Substance List, 40 CFR 302.4: This product contains chemicals listed on CERCLA. None**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):** None**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):** None**SARA Title III****Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None**Section 311/312 (40 CFR 370):****Acute Health Hazard:** Yes**Chronic Health Hazard:** Yes**Fire Hazard:** No**Pressure Hazard:** No**Reactivity Hazard:** No**Section 313 Toxic Release Inventory (40 CFR 372):** None**STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986: No components are listed on Prop 65.**Massachusetts Right to Know:** None of the components are listed on the Massachusetts Right to Know List.**Minnesota Hazardous Substance List:** None of the components are listed on the Minnesota Hazardous Substance List.



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New Jersey Right to Know: Tetrapotassium pyrophosphate is listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Tetrapotassium pyrophosphate is listed on the Pennsylvania Right to Know List.

Rhode Island Hazardous Substance List: None of the components are listed on the Rhode Island Hazardous Substance List.

Canada WHMIS Hazard Class: D2B - Toxic materials.

Regulatory CODE Descriptions

TSCA = Toxic Substances Control Act

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OTHER INFORMATION

The information herein is provided in good faith and believed to be accurate as of the effective date shown above. The information presented here pertains only to the product as shipped.

Publication Date: March 23, 2015