

Bluegrass KESCO

Water Treatment Products and Technical Services

PRODUCT NAME: KC-324

Revision Date: 18Feb2014

Bluegrass KESCO encourages and expects customers to read and understand the entire Safety Data Sheet, as there is important information throughout the document. Follow the precautions identified in this document unless use conditions warrant other appropriate methods or actions.

Section 1

Identification

Product Name: KC-324

Company Identification:

Bluegrass KESCO 1101 Industrial Blvd. Louisville, KY 40219

Information Number: (502) 969-4499

24-Hour Emergency Phone

Chemtrec (800) 424-9300

Product recommended use:

KC-324 is a scale and corrosion inhibitor for use in normal or high stress open recirculating water systems. We recommend that you use this product in a manner consistent with the listed use.

Section 2

Hazards Identification

Hazard Classification:

Physical....: The product is not classified as a physical hazard. Serious eye damage/eye irritation - Category 2A Health....:

Irritating to skin - Category 3

The product is not classified as an environmental hazard. Environmental:

Label Elements:

Symbol....:



Signal word....:

• H319 - Causes serious eye irritation Hazard statement....:

· H316 - Causes mild skin irritation

- Precautionary statements....: P101 If medical advice is needed, have product container or label on hand.
 - P280 Use personal protective equipment as required.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
 - P302+P-313 If skin irritation occurs: Get medical advice/attention.
 - P501: Dispose of contents/container in accordance with local regulation.

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Section 3

Composition / Information on Ingredients

This product is a mixture.

Component Name	CAS#	Amount	Classification
(1-Hydroxyethylidene) diphosphonic acid	2809-21-4	< 5 %	Skin corrosion (Category 1) Serious eye damage (Category 1)
2-phosphono-1,2,4-butanetricarboxylic acid	37971-36-1	< 5 %	Not hazardous
Polyacrylate polymer	9003-04-07	< 5 %	Not hazardous
Polymaleic acid polymer	26099-09-2	< 10 %	Skin irritation (Category 2) Serious eye damage (Category 1)
Sodium Tolyltriazole	64665-57-2	< 4 %	Skin irritation (Category 3) Eye damage (Category 1)
Sodium Hydroxide	1310-73-2	10 - 20 %	Skin corrosion (Category 1) Serious eye damage (Category 1) Acute aquatic toxicity (Category 3)

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First Aid Measures

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes

and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an

ophthalmologist.

Skin Contact: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and

wash thoroughly before reuse. If irritation persists consult a health care professional

Inhalation...: Not a likely route of exposure. Acrosols or product mist may irritate the upper respiratory tract.

Ingestion....: Not a likely route of exposure. In case of ingestion, DO NOT INDUCE VOMITING. Rinse with copious

amounts of water first. Irrigate the esophagus and dilute stomach contents by slowly giving plenty of water. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately. Take

individual to nearest medical facility.

SYMPTOMS OF EXPOSURE:

Acute......: Moderate to severe eye irritation, and slight to moderate skin irritation. The effects depend on the length of

exposure, solution concentration, and first aid measures.

Chronic....: A review of available data does not identify any symptoms from exposure not previously mentioned.

Aggravation of Existing Conditions: A review of available data does not identify any worsening of existing conditions.

NOTES TO PHYSICIAN: Treatment of exposures should be directed at the control of symptoms and the clinical condition.

Section 5 Fire-Fighting Measures

use carbon dioxide (CO2), dry chemical or water spray. Water can be used

to cool fire exposed containers.

Unsuitable extinguishing media....: None known.
Hazards during fire-fighting....: None known.

Hazardous Combustion Products......: Thermal breakdown of this product during fire or very high heat conditions

may generate the following decomposition products: Phosphorous, nitrogen

and carbon oxides.

Special protective equipment/procedures: A self-contained respirator and protective clothing should be worn.

Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

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Section 6

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear proper protective equipment.

Environmental precautions: Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers.

Methods and materials for containment and cleaning up: Determine the need to evacuate or isolate the area

according to your local emergency plan.

Small spills: Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills: Dike far ahead of liquid spill for later disposal.

Section 7

Handling and Storage

Handling...: Avoid spilling, and skin/eye contact. Do not breathe mists. Do not ingest. Use only with adequate ventilation.

When splashing can occur, a protective face shield is required. Do not empty into drains. Use good personal

hygiene practices.

Storage....: Store in tightly closed original container. Store away from strong acids.

Section 8

Exposure Controls / Personal Protection

Control parameters:

Component NameCAS #Exposure LimitsSodium Hydroxide1310-73-22 mg/m3 (ceiling) - ACGIH
2 mg/m3 (PEL) - OSHA

The other components do not have assigned exposure limits.

Exposure controls:

	Eye Protection:	Wear safety glasses with side shields or chemical safety goggles. Have eye-wash stations available where eye contact can occur.
ion	Skin Protection:	Avoid skin contact. Wear gloves impervious to conditions of use. A safety shower should be located in the work area. Recommended protective materials include: butyl rubber, natural rubber ("latex"), neoprene, and nitrile/butadiene rubber ("NBR").
Personal Protection	Respiratory Protection:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects such as respiratory irritation or discomfort have been experienced. Depending on the working conditions, wear a respiratory mask with filter(s) P or use a self-contained respirator. The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.
	Ingestion:	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.
Eng	ineering Controls:	General ventilation is recommended.

Section 9 Physical and Chemical Properties

Flashpoint...... >212° F (Pensky-Martens Closed Cup)

Boiling Point.....: >212° F

Melting Point...... Not applicable to liquids

% Solubility in Water....: 100% soluble

Appearance / Odor.....: Amber, clear liquid with slight odor

Lower Flammability Limit: Not Flammable

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Upper Flammability Limit: Not Flammable

Section 10 Stability and Reactivity

Chemical stability...... Stable under recommended storage conditions.

Possibility of hazardous reactions...: Polymerization will not occur.

Conditions to avoid...... None established.

Incompatible materials...... Avoid contact with: Strong acids.

Hazardous decomposition products: Thermal breakdown of this product during fire or very high heat conditions may

generate the following decomposition products: Phosphorous, nitrogen and carbon

oxides.

Section 11 Toxicological Information

Signs and Symptoms of Overexposure: Eye and skin irritation.

toxicity	Eye Contact:	May cause moderate to severe conjunctival irritation and reversible corneal damage depending on length of exposure, solution concentration, and first aid measures.
Skin Contact:		Dermal irritant. Slight to moderate skin irritation depending on length of exposure, solution concentration, and first aid measures.
	Inhalation: Inhalation of a large amount may cause systemic adverse effects.	
<	Ingestion:	Swallowing large amounts may cause systemic adverse effects.

Target Organ Effects: Expected to be corrosive to eyes and an irritant to skin.

Chronic Toxicity.....: No adverse effects are normally expected.

Medical Conditions Aggravated by Exposure: None

Section 12 Ecological Information

PERSISTENCE: This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material is believed to exist in the disassociated state in the environment.

Section 13 Disposal Considerations

Product and packaging disposal: Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.

Section 14 Transport Information

DOT Shipping Name: Not a regulated hazardous material.

Unless otherwise stated, the shipping information provided above applies only to non-bulk containers of this product. Proper shipping name and general shipping information may vary depending on packaging and mode of shipment. All products shipped from Bluegrass KESCO locations have been properly packaged and labeled according to appropriate hazardous materials shipping regulations. If any alteration of packaging, product, or mode of transportation is further intended, different shipping information (including but not limited to proper shipping name, RQ designation, and labeling) may apply. For further information pertaining to the shipping requirements for this product, contact Bluegrass KESCO.

Compensation and Liability Act):

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Section 15

Regulatory Information

The following regulations are known to apply to the use and disposal of this product. Additional Federal, State and Local regulations may also be applicable.

SARA (Superfund Amendments and Reauthorization Act):

SARA 302 Extremely Hazardous Substances List...:
SARA 312 Hazard Category.....

SARA 313 Toxic Chemicals List.....:

CERCLA (Comprehensive Environmental Response,

RCRA (Resource Conservation and Recovery Act) Listed Hazardous Waste:

CWA (Clean Water Act) Listed Substances.....:

FDA (Food and Drug Administration)....:
TSCA (Toxic Substances Control Act) Applicability.....:

TSCA (Toxic Substances Control Act) Applicability.....: FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)..: No components of this product are listed.

Immediate (Acute) Health Hazard.

The following components are listed on the SARA 313 Toxic Substances List (may be listed as categories): No components of this product are listed.

The following components are listed on the CERCLA Hazardous Substances List (may be listed as categories):

• Sodium Hydroxide RQ = 1,000 lbs.

When disposed of, this product may be regulated as a RCRA Hazardous Waste with the characteristic of corrosivity due to the pH of the neat material.

No components of this product are listed.

This product is not approved for food contact uses. All components are listed on TSCA Inventory.

This product is not a registered pesticide.

STATE REGULATIONS:

Various State Right to Know Acts: Non-proprietary hazardous chemicals are listed in Section 3 of this Safety Data Sheet. Should you require further information on specific proprietary chemicals or inert ingredients please contact Bluegrass KESCO.

Section 16

Other Information

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.

Flammability

HMIS/NPCA Ratings: Health 2; Flammability 0; Reactivity 1

NFPA Ratings......: Health 2; Flammability 0; Reactivity 1

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

Issue Date.....: 18Feb2014

Version Number: 0



The information on this Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Data Sheet is the responsibility of the user. This Safety Data Sheet was prepared to comply with the last version of the OSHA Hazard Communication regulations.

Bluegrass KESCO warrants that this product conforms to chemical description and is reasonably fit for the purpose referred to in the directions for use when used in accordance with the directions under normal conditions.

Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including <u>NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE</u>. No such warranties shall be implied by law, and no agent of seller is authorized to alter this warranty in any way except in writing with specific reference to this warranty.

The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of this product, without regard to whether such a claim is based upon breach of warranty or tort.

Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the commercial arbitration rules of the American Arbitration Association, and judgment upon the award rendered by the Arbitration(s) may be entered in any court having jurisdiction thereof.