

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 08/04/2014 Date of issue: 08/04/2014

SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Mixture
Product Name: HF Acid Kleen

Product Code: 5282

Intended Use of the Product

For professional use only. Acid foam cleaner for use on food processing equipment. Effective for the removal of hardness scale and

rust.

Name, Address, and Telephone of the Responsible Party

Company

Bortek Industries, Inc. 4713 Old Gettysburg Road Mechanicsburg, PA 17055

800-626-7835

Emergency Telephone Number

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

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Met. Corr. 1 H290 Skin Corr. 1B H314 Eye Dam. 1 H318 Aquatic Acute 3 H402

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H290 - May be corrosive to metals

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage H402- Harmful to aquatic life

Precautionary Statements (GHS-US): P234 - Keep only in original container.

P260 - Do not breathe mist, spray, vapors.

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P273- Avoid release to the environment.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.

P321 - Specific treatment (see Section 4).

P363 - Wash contaminated clothing before reuse.

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P390 - Absorb spillage to prevent material damage.

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards: May be corrosive to the respiratory tract. When heated to decomposition, emits toxic fumes. Contact with some metals may evolve flammable hydrogen gas.

Unknown Acute Toxicity (GHS-US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	60-70	Not classified
Phosphoric acid	(CAS No) 7664-38-2	30-40	Met. Corr. 1, H290
			Acute Tox. 4 (Oral), H302
			Skin Corr. 1B, H314
			Eye Dam. 1, H318
Sodium xylene sulfonate	(CAS No) 1300-72-7	1 - 5	Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			STOT SE 3, H335
Benzenesulfonic acid, 4-C10-13-sec-alkyl	(CAS No) 85536-14-7	1 - 5	Acute Tox. 4 (Oral), H302
derivatives			Skin Corr. 1C, H314
			Eye Dam. 1, H318
			Aquatic Acute 2, H401
			Aquatic Chronic 3, H412
Sulfonic acids, C14-16-alkane hydroxy and	(CAS No) 68439-57-6	0.1-1	Skin Irrit. 2, H315
C14-16-alkene, sodium salts			Eye Dam. 1, H318
			Aquatic Acute 2, H401
Nonylphenol ethoxylates	(CAS No) 9016-45-9	0.1-1	Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
			Aquatic Chronic 2, H411

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 and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing. Rinse cautiously with water for at least 30 minutes. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes severe skin burns and serious eye damage. Corrosive to eyes, respiratory system, and skin.

Inhalation: Contact may cause immediate severe irritation progressing quickly to chemical burns.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects. Contact may cause immediate severe irritation progressing quickly to chemical burns.

Chronic Symptoms: None expected under normal conditions of use.

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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: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Thermal decomposition generates: Corrosive vapors. Reacts violently with strong bases. May generate explosive hydrogen gas when in contact with some metals.

Advice for Firefighters

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

Firefighting Instructions: Do not breath fumes from fires or vapors from decompostion. Stop leak if safe to do so. Do not allow runoff from fire fighting to enter drains or water sources.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Phosphorus oxides. Carbon oxides (CO, CO₂). Sulfur oxides .

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: Do not allow product to spread into the environment. Do NOT breathe (vapors, mist, spray). Do not get in eyes, on skin, or on clothing

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Cautiously neutralize spilled product with soda ash or lime. Absorb and/or contain spill with inert material, then place in suitable container. Ventilate area. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, corrosive vapors are released. Contact with metals may evolve flammable hydrogen gas.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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. Keep away from extremely high temperatures and incompatible materials.

Incompatible Materials: Strong bases. Strong oxidizers. Metals.

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Specific End Use(s)

For professional use only. Acid foam cleaner for use on food processing equipment. Effective for the removal of hardness scale and rust.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Phosphoric acid (7664-38-2)		
Mexico	OEL TWA (mg/m³)	1 mg/m³
Mexico	OEL STEL (mg/m³)	3 mg/m³
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
USA ACGIH	ACGIH STEL (mg/m³)	3 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³
USA NIOSH	NIOSH REL (STEL) (mg/m³)	3 mg/m³
USA IDLH	US IDLH (mg/m³)	1000 mg/m ³
Ontario	OEL STEL (mg/m³)	3 mg/m³
Ontario	OEL TWA (mg/m³)	1 mg/m³
Québec	VECD (mg/m³)	3 mg/m³
Québec	VEMP (mg/m³)	1 mg/m³

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Alarm detectors should be used when toxic gases may be released. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Safety glasses. Face shield. Corrosionproof clothing. Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.











Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses. Chemical goggles or face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. Wear approved mask.

Consumer Exposure Controls: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State : Liquid

Appearance: Clear, Red-OrangeOdor: Moderate acidicOdor Threshold: Not available

pH : <1

Relative Evaporation Rate (butylacetate=1) : Not available

Melting Point : Not available

Freezing Point : Not available

Boiling Point : 97.8 °C (208.04 °F)

Flash Point : Not flammable

Auto-ignition Temperature : Not available

Decomposition Temperature : Not available

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Flammability (solid, gas) : Not flammable
Lower Flammable Limit : Not available
Upper Flammable Limit : Not available
Vapor Pressure : Not available
Relative Vapor Density at 20 °C : Not available

Specific Gravity : 1.20

Solubility: Complete in water.Partition coefficient: n-octanol/water: Not availableViscosity: Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Thermal decomposition generates: Corrosive vapors are releaased when heated to decomposition. Corrosive to some metals. Contact with metals may generate explosive hydrogen gas. Reacts violently with strong bases.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous reactions will not occur under normal conditions.

Conditions to Avoid: Extremely high temperatures. Prolonged conatct with metals. Incompatible materials.

Incompatible Materials: Strong bases. Strong oxidizers. Metals.

Hazardous Decomposition Products: Thermal decomposition generates : Corrosive vapors. Carbon oxides (CO, CO₂). Phosphorus

oxides. Sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified. LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes severe skin burns.pH: <1
Serious Eye Damage/Irritation: Causes serious eye damage.

pH: <1

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.

Symptoms/Injuries After Inhalation: Contact may cause immediate severe irritation progressing quickly to chemical burns

Symptoms/Injuries After Skin Contact: Causes severe skin burns. **Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

ATE

Water (7732-18-5)		
LD50 Oral Rat	> 90000 mg/kg	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)		
LD50 Oral Rat 1219 mg/kg		
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)		

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> 5,000 mg/kg

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Phosphoric acid (7664-38-2)		
LD50 Oral Rat	1530 mg/kg	
LD50 Dermal Rabbit	2730 mg/kg	
LC50 Inhalation Rat	> 850 mg/m³ (Exposure time: 1 h)	
Sodium xylene sulfonate (1300-72-7)		
LD50 Oral Rat	1000 mg/kg	
LD50 Dermal Rabbit	> 2000 mg/kg	
Nonylphenol ethoxylates (9016-45-9)		
LD50 Oral Rat	2590 mg/kg	
LD50 Dermal Rabbit	1780 μl/kg	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified.

		
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)		
LC50 Fish 1	>1-10 mg/l (Exposure time: 96 h)	
EC50 Daphnia 1	>1-10 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)		
LC50 Fish 1	5.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])	
EC50 Daphnia 1	5.2 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC 50 Fish 2	1.67 mg/l (Exposure time: 96h - Species:Lepomis macrochirus)	

Persistence and Degradability

HF Acid Kleen	
Persistence and Degradability	Not established.

Bioaccumulative Potential

HF Acid Kleen	
Bioaccumulative Potential	Not established.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)	
Log Pow	2 (at 23 °C)

Mobility in Soil Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. RCRA Waste Code: D002 (Corrosive Material).

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)

Hazard Class : 8

Identification Number : UN3264

Label Codes: 8Packing Group: IIIERG Number: 154

14.2 In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)

Hazard Class : 8
Identification Number : UN3264
Packing Group : III
Label Codes : 8



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: F-A EmS-No. (Fire) : S-B EmS-No. (Spillage) **MFAG Number** : 154

14.3 In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)

: 111 **Packing Group**

Identification Number : UN3264

Hazard Class ٠ 8 **Label Codes** : 8 **ERG Code (IATA)** : 8L

14.4 In Accordance with TDG

Proper Shipping Name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Phosphoric acid)

Packing Group : 11 **Hazard Class** : 8 **Identification Number** : UN3264

Label Codes : 8



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

HF Acid Kleen

SARA Section 311/312 Hazard Classes Immediate (acute) health hazard

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Phosphoric acid (7664-38-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium xylene sulfonate (1300-72-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Nonylphenol ethoxylates (9016-45-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Phosphoric acid (7664-38-2)

U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)

RTK - U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - New York - Occupational Exposure Limits - TWAs

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

RTK - U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Sodium xylene sulfonate (1300-72-7)

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Nonylphenol ethoxylates (9016-45-9)

U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups

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U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

HF Acid Kleen

Class E - Corrosive Material

Class D Division 2 Subdivision B - Toxic material causing other toxic effects



WHMIS Classification



Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

IDL Concentration 1 %

WHMIS Classification Class E - Corrosive Material

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Sodium xylene sulfonate (1300-72-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Nonylphenol ethoxylates (9016-45-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

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

Revision date : 10/07/2014

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:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2

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STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

NFPA Health Hazard

3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

given.

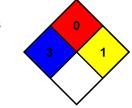
NFPA Fire Hazard

: 0 - Materials that will not burn.

NFPA Reactivity : 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.



HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard
Physical : 1 Slight Hazard

Party Responsible for the Preparation of This Document

Bortek Industries, Inc. 4713 Old Gettysburg Road Mechanicsburg, PA 17055

800-626-7835

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.

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