

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 04/06/2023

Version: 1.3

# **SECTION 1: IDENTIFICATION**

# Product Identifier

Product Form: Mixture

Product Name: Millennium Bright
Product Code: AFCO 6006
Intended Use of the Product

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

## Name, Address, and Telephone of the Responsible Party

# Company

**AFCO** 

800 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)

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 if inhalable mists may occur during use.

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. P390 - Absorb spillage to prevent material damage.

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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:** Not available, product is a mixture.

### Mixture:

Name	Product identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	70-90	Not classified
Phosphoric acid	(CAS No) 7664-38-2	20-30	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

The exact percentage of composition are withheld as a trade secret [29 CFR § 1910.1200 App E].

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. Drench affected area with water for at least 15 minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do so after the first five (5) minutes. Continue rinsing. Seek medical attention immediately.

**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 and skin.

Inhalation: None under normal and intended conditions of use.

**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.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

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## **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, CO<sub>2</sub>). Sulfur oxides (SO<sub>x</sub>).

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

# 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/m³
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. If user operations generate fumes, vapor, spray, or mist use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Ensure all national/local regulations are observed.

Personal Protective Equipment: Safety glasses. Face shield. Corrosionproof clothing. Gloves. Protective goggles.









Materials for Protective Clothing: Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves. **Eye Protection:** Chemical goggles, safety glasses, face shield. **Skin and Body Protection:** Wear suitable protective clothing.

Respiratory Protection: A respirator is not needed under normal and intended conditions of product use.

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-Orange.Odor: Moderate acidic.Odor 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. Flammability (solid, gas) Not flammable. **Lower Flammable Limit** Not available. **Upper Flammable Limit** Not available.

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Vapor Pressure : Not available.

Relative Vapor Density at 20°C : Not available.

Specific Gravity : 1.12

Solubility: Complete in water.Partition coefficient: n-octanol/water: Not available.Viscosity: 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 released 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, CO<sub>2</sub>). Phosphorus

oxides. Sulfur oxides  $(SO_x)$ .

## **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: None under normal and intended conditions of use.

**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:

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)		
ATE	>5,000 mg/kg	
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	

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#### 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)
LC50 Fish 2	1.67 mg/l (Exposure time: 96h - Species:Lepomis macrochirus)

#### **Persistence and Degradability**

Millennium Bright (AFCO 6006)	
Persistence and Degradability	Not established.

### **Bioaccumulative Potential**

Millennium Bright (AFCO 6006)	
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: UN3264Label Codes: 8

Packing Group : III ERG 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
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B



MFAG Number : 154
14.3 In Accordance with IATA

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

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

: 8L



14.4 In Accordance with TDG

**ERG Code (IATA)** 

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

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



#### **SECTION 15: REGULATORY INFORMATION**

#### **US Federal Regulations**

Millennium Bright (AFCO 6006)	
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.

## **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

#### **Canadian Regulations**

#### Water (7732-18-5)

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

## Sodium xylene sulfonate (1300-72-7)

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

### 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.

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** : 04/06/2023

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

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#### **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
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

0

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 is 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

**AFCO** 

800 Development Avenue Chambersburg, PA 17201

Tel. 800-345-1329

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.)

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