according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 09/18/2023

SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Mixture
Product Name: Acidet #3
Product Code: AFCO 5476
Intended Use of the Product

Use of the Substance/Mixture: Acid cleaner designed for soak and manual cleaning of food processing equipment. 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

 Acute Tox. 4 (Oral)
 H302

 Skin Corr. 1A
 H314

 Eye Dam. 1
 H318

Label Elements
GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Danger

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

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

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

P260 - Do not breathe vapors, mist, spray.

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

P270 - Do not eat, drink, or smoke when using this product.

P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P312 - IF SWALLOWED: Call a Poison Center or doctor/physician if you feeul unwell

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).

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P330 - Rinse mouth.

P363 - Wash contaminated clothing before reuse.

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 Not Contributing to the Classification: N/A.

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Contact with soft metals may generate 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	50-60	Not classified
Phosphoric acid	(CAS No) 7664-38-2	40-50	Met. Corr. 1, H290
			Acute Tox. 4 (Oral), H302
			Skin Corr. 1B, H314
			Eye Dam. 1, H318
2-Butoxyethanol	(CAS No) 111-76-2	1-5	Flam. Liq. 4, H227
			Acute Tox. 4 (Oral), H302
			Acute Tox. 4 (Dermal), H312
			Acute Tox. 4 (Inhalation: vapour), H332
			Skin Irrit. 2, H315
			Eye Irrit. 2A, H319
Nonylphenol ethoxylates	(CAS No) 9016-45-9	1-5	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: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention.

Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for several minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Seek medical attention immediately. Rinse cautiously with water for several 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 serious eye damage. Corrosive to eyes and skin.

Inhalation: May cause slight irritation to respiratory tract.

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.

quickly to chemical burns.

Chronic Symptoms: Not available.

<u>Indication of Any Immediate Medical Attention and Special Treatment Needed</u>

If exposed or concerned, get medical advice and attention.

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SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

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

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Thermal decomposition generates: Corrosive vapors. When heated to decomposition, emits toxic fumes. Corrosive to

soft metals. Contact with soft metals may generate flammable hydrogen gas.

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

Hazardous Combustion Products: Phosphorus oxides. Carbon oxides (CO, CO₂). Toxic fumes are released.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

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: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the 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. Cautiously neutralize spilled liquid with soda ash or lime.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Contact competent authorities after a spill with sod ash or lime.

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, emits toxic fumes. Corrosive vapors are released. Contact with soft metals may generate 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 no eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

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/Store away from extremely high temperature, incompatible materials.

Incompatible Materials: Strong bases. Strong oxidizers.

Special Rules on Packaging: Keep only in original container.

Specific End Use(s)

Acid cleaner designed for soak and manual cleaning of food processing equipment. For professional use only.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

OEL TWA (mg/m³)	1 mg/m³
OEL STEL (mg/m³)	3 mg/m³
ACGIH TWA (mg/m³)	1 mg/m³
ACGIH STEL (mg/m³)	3 mg/m³
OSHA PEL (TWA) (mg/m³)	1 mg/m³
NIOSH REL (TWA) (mg/m³)	1 mg/m³
NIOSH REL (STEL) (mg/m³)	3 mg/m³
US IDLH (mg/m³)	1000 mg/m³
OEL STEL (mg/m³)	3 mg/m³
OEL TWA (mg/m³)	1 mg/m³
VECD (mg/m³)	3 mg/m³
VEMP (mg/m³)	1 mg/m³
OEL TWA (mg/m³)	120 mg/m³
OEL TWA (ppm)	26 ppm
OEL STEL (mg/m³)	360 mg/m³
OEL STEL (ppm)	75 ppm
ACGIH TWA (ppm)	20 ppm
OSHA PEL (TWA) (mg/m³)	240 mg/m³
OSHA PEL (TWA) (ppm)	50 ppm
NIOSH REL (TWA) (mg/m³)	24 mg/m³
NIOSH REL (TWA) (ppm)	5 ppm
US IDLH (ppm)	700 ppm
OEL TWA (ppm)	20 ppm
VEMP (mg/m³)	97 mg/m ³
	OEL STEL (mg/m³) ACGIH TWA (mg/m³) ACGIH STEL (mg/m³) OSHA PEL (TWA) (mg/m³) NIOSH REL (STEL) (mg/m³) US IDLH (mg/m³) OEL STEL (mg/m³) OEL TWA (mg/m³) VECD (mg/m³) VEMP (mg/m³) OEL TWA (ppm) OEL STEL (mg/m³) OEL TWA (ppm) OEL TWA (ppm) OEL TWA (ppm) OEL STEL (mg/m³) OEL TWA (ppm) OEL TWA (ppm) OEL STEL (mg/m³) OEL TWA (ppm) OSHA PEL (TWA) (mg/m³) NIOSH REL (TWA) (ppm) NIOSH REL (TWA) (ppm) US IDLH (ppm) OEL TWA (ppm)

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas. If user operations generate fumes, vapors, gas, or spray use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or regulatory limits.

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









Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosionproof clothing.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or 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. Whenever worker

exposure may exceed established regulatory exposure limits, use a NIOSH-approved respirator.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>Information on Basic Physical and Chemical Properties</u>

Physical State : Liquid

Appearance : Clear, pale yellow

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Odor : Mild

Odor Threshold : Not available

pH : <1

Relative Evaporation Rate (butylacetate=1) Not available Not available **Melting Point Freezing Point** Not available **Boiling Point** 105°C (221°F) **Flash Point** Not flammable Not available **Auto-ignition Temperature Decomposition Temperature** Not available Flammability (solid, gas) Not flammable **Lower Flammable Limit** Not available Not available **Upper Flammable Limit Vapor Pressure** Not available Relative Vapor Density at 20°C Not available

Specific Gravity : 1.29
Solubility : Complete
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. When heated to decomposition, emits toxic fumes. Corrosive to soft metals.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

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

Incompatible Materials: Strong bases. Strong oxidizers. Soft metals.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). Thermal decomposition generates: Phosphorus 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: May cause slight irritation to respiratory tract.

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. Contact may cause immediate severe

irritation progressing quickly to chemical burns.

Information on Toxicological Effects - Ingredient(s)

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LD50 and LC50 Data:

ED30 una EC30 Data.		
Water (7732-18-5)		
LD50 Oral Rat	>90000 mg/kg	
Nonylphenol ethoxylates (9016-45-9)		
LD50 Oral Rat	2590 mg/kg	
LD50 Dermal Rabbit	1780 μl/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)	
2-Butoxyethanol (111-76-2)		
LD50 Oral Rat	470 mg/kg	
LD50 Dermal Rat	1680 mg/kg	
LC50 Inhalation Rat (ppm)	450 ppm/4h	
ATE (dermal)	0.680 mg/kg body weight	
ATE (gases)	450.000 ppmV/4h	
ATE (vapors)	11.000 mg/l/4h	<u>-</u>
IARC Group	3	<u>-</u>
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified.

2-Butoxyethanol (111-76-2)	
LC50 Fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

Persistence and Degradability: Not available.

Bioaccumulative Potential

Acidet #3 (AFCO 5476)	
Bioaccumulative Potential	Not established.
2-Butoxyethanol (111-76-2)	
Log Pow	0.81 (at 25°C)

Mobility in Soil Not available.

Other Adverse Effects

Other Information: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

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)

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Hazard Class : 8
Identification Number : UN3264
Packing Group : III
Label Codes : 8
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B



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
ERG Code (IATA) : 8L



14.4 In Accordance with TDG

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

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

Label Codes : 8



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Acidet #3 (AFCO 5476)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard.

Water (7732-18-5)

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.

Phosphoric acid (7664-38-2)

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

2-Butoxyethanol (111-76-2)

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

US State Regulations

Nonylphenol ethoxylates (9016-45-9)

- U.S. California Safer Consumer Products Initial List of Candidate Chemicals and Chemical Groups
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

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)
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- 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 Short Term

2-Butoxyethanol (111-76-2)

- U.S. California SCAQMD Toxic Air Contaminants Non-Cancer Acute
- U.S. California Toxic Air Contaminant List (AB 1807, AB 2728)

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- 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 Skin Designations
- U.S. New York Occupational Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) List
- 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.

Nonylphenol ethoxylates (9016-45-9)

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

Phosphoric acid (7664-38-2)

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

2-Butoxyethanol (111-76-2)

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 : 09/18/2023

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:

A --- to Tou A / Downsol

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation: vapour)	Acute toxicity (inhalation: vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
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. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
H227	Combustible liquid
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H411	Toxic 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.

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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

AFCO

800 Development Avenue Chambersburg, PA 17201

T: 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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