



# SAFETY DATA SHEET

Penetone® Corporation, 700 Gotham Parkway, Carlstadt, NJ 07072

## PENETONE AFW3

Page: 1 of 7  
Date Prepared: June 17, 2015  
MSDS No.: 2553

### SECTION 1: IDENTIFICATION

**Product name:** PENETONE AFW3

**Recommended use:** Acid cleaner for paper machine felts and wires

**Physical Description:** Clear amber liquid with vinegar odor

**Generic Ingredients:** Water, organic acids, surfactant, and chelate

**Manufacturer:**

Penetone Corporation  
700 Gotham Parkway  
Carlstadt, NJ 07072  
800-631-1652 or 201-567-3000

**Business Contact:**

Customer Service  
800-631-1652 x2602 or 2272  
Product Safety  
800-631-1652 x2211 or 2257

**Emergency Phone Numbers:** PENETONE 201-567-3000 CHEMTREC 800-424-9300

### SECTION 2: HAZARDS IDENTIFICATION

**GHS CLASSIFICATION:**

<b>Health:</b> Skin corrosion: 1C Eye damage: 1	<b>Physical:</b> not classified
---	------------------------------------

**DANGER!**

Causes Severe Skin Burns and Eye Damage.



Precautionary Statements:	
<p><b>Prevention:</b> Do not breathe mists if inhalable mists occur during use. Wear protective gloves, clothing, eye protection, and face protection. Wash hands and exposed skin thoroughly after handling.</p> <p><b>Response:</b> <i>If swallowed:</i> Rinse mouth. Do NOT induce vomiting. <i>If on skin or hair:</i> Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. <i>If in eyes:</i> Rinse cautiously with water for several minutes. Remove contact lenses, if present and</p>	<p>easy to do. Continue rinsing. <i>If inhaled:</i> Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center, doctor, emergency room, or 911.</p> <p><b>Storage:</b> Store locked up.</p> <p><b>Disposal:</b> Dispose of contents/container in accordance with local, regional, and national regulations (see Sections 13 and 15 of SDS for disposal and reporting requirements).</p>

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Concentration Wt% (1)
Water	7732-18-5	70-90
Acetic acid	64-19-7	1-10
Hydroxyacetic acid	79-14-1	1-10
Ethoxylated nonylphenol	127087-87-0	1-10
1-hydroxyethylidene-1,1-diphosphonic acid	2809-21-4	<1
Diethylene triamine penta(methylene phosphonic) acid	15827-60-8	<1

(1) Exact percentages being withheld under trade secret provision of OHSA HCS 1910.1200(i)



---

**PENETONE AFW3**

Page: 2 of 7  
Date Prepared: June 17, 2015  
MSDS No.: 2553

---

---

**SECTION 4: FIRST-AID MEASURES**

---

**General Description of Symptoms & First-Aid Measures**

Most likely work-place exposure routes will be *skin contact* or *inhalation*.

For *skin contact*, typically no immediate effects will be observed. A tingling or burning sensation might be felt some time after exposure. Slight reddening or minor irritation could also develop if product is not quickly washed off. If product not washed off or left in contact with skin for some time, skin burn could result.

*Inhalation* exposure may produce varied effects, particularly if exposure occurs above the recommended workplace exposure limits (see SECTION 8). Typical symptoms could include coughing, sneezing, and a tingling or burning sensation in the nose, throat, and lungs.

**Eyes**

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a local Poison Control Center, doctor, physician or other competent medical authority for medical advice. Penetone recommends that after any eye exposure a physician be seen immediately.

**Ingestion**

If swallowed: Rinse mouth. DO NOT INDUCE VOMITING. Immediately call a poison center, doctor, physician or other competent medical authority for medical advice.

**Inhalation**

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a local Poison Control Center, physician, or other competent medical authority for medical advice.

**Skin**

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. A mild soap may be used to wash skin. Wash contaminated clothing before reuse. Immediately call a local Poison Control Center, doctor, physician or other competent medical authority for medical advice.

**Special Treatment / Other**

None

---

**SECTION 5: FIRE FIGHTING MEASURES**

---

**Flammable Properties**

**Classification:** Non-flammable

**Flash Point:** None-to-boil

**Autoignition Temperature:** not determined

**Lower Flammable Limit:** Not applicable **Upper Flammable Limit:** Not applicable

**Specific Hazards**

Product is water based and presents no unusual fire hazards.

**Extinguishing Media**

Use extinguishing agents appropriate for controlling surrounding fire.

**Unsuitable:** None.

**Protection & Precautions for Firefighters**

**Protective Equipment & Clothing:** Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters protective clothing will only provide limited protection.

**Fire Fighting Guidance:** Cool containers with flooding quantities of water until well after fire is out. Move containers from fire area if you can do it safely. Dike fire control water for later disposal; do not scatter material.



---

**PENETONE AFW3**

Page: 3 of 7  
Date Prepared: June 17, 2015  
MSDS No.: 2553

---

Containers can expand and explode under fire conditions due to vapor buildup. Always stay away from containers engulfed in fire.

**Hazardous Combustion Products:** Smoke, fumes, and oxides of carbon, nitrogen, and phosphorus when taken to dryness and burned.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

---

**Land Spill**

Absorb spillage to prevent material damage. Stop leak if you can do it safely. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spill, soak up with absorbent material and place in properly labeled containers for disposal. Neutralize residue with dilute base or sprinkle with sodium bicarbonate, followed by water rinse.

**Water Spill**

This is a water based product and will completely mix/dissolve in water making recovery difficult. This product is acidic and may lower the pH of surface waters with low buffering capacity. Check with local environmental regulatory agencies for reporting requirements.

See **SECTION 8 for EXPOSURE CONTROLS and PERSONAL PROTECTION.**

---

**SECTION 7: HANDLING & STORAGE**

---

**Handling**

Avoid contact with eyes, skin and clothing. After handling, always wash hands thoroughly with soap and water. Avoid personal contact with any residue. Do not cut, weld, or reuse empty container.

**Storage**

Store locked up. Keep container tightly closed when not in use. Do not store near strong bases. Do not store in direct sunlight. Avoid storing above 120°F (49°C).

---

**SECTION 8: EXPOSURE CONTROLS and PERSONAL PROTECTION**

---

**Engineering Controls**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

**Personal Protection**

Inhalation A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use of an organic vapor mask or respirator is recommended.

Skin Wear chemical resistant gloves such as: rubber, nitrile, neoprene, or latex when skin contact is possible. Protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn depending on how the product is used. PPE should be cleaned thoroughly after each use.

Eyes Penetone recommends always wearing safety glasses as a minimum in any workplace. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice. Use protective eye and face devices that comply with ANSI Z87.1-1987.

**Additional Remarks**

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use.



# SAFETY DATA SHEET

Penetone® Corporation, 700 Gotham Parkway, Carlstadt, NJ 07072

## PENETONE AFW3

Page: 4 of 7  
Date Prepared: June 17, 2015  
MSDS No.: 2553

### Occupational Exposure Limits

<u>Component Name</u>	<u>Source</u>	<u>Value</u>	<u>Type</u>	<u>Notation</u>
Acetic acid	ACGIH	10 ppm	TWA	
		15 ppm	STEL	
	NIOSH	10 ppm	TWA	
		15 ppm	STEL	
	OSHA	10 ppm	PEL	

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

**Appearance:** clear amber liquid  
**Odor:** vinegar  
**Odor Threshold:** not determined  
**pH:** <1  
**Melting Point / Freezing:** about 32°F  
**Boiling Point / Boiling Point Range:** about 212°F  
**Flash Point:** not applicable  
**Evaporation Rate:** equal to water  
**Flammability:** not applicable  
**Lower Flammable Limit:** not applicable  
**Upper Flammable Limit:** not applicable  
**Explosive Properties:** not applicable  
**Vapor Pressure:** equal to water  
**Relative Vapor Density:** equal to water  
**Relative Density:** 1.05  
**Solubility (Water):** soluble in water  
**Partition Coefficient ( $K_{ow}$ ):** not determined  
**Auto-ignition temperature:** not applicable  
**Decomposition temperature:** not applicable  
**Viscosity:** less than 5 centipoise at room temperature

## SECTION 10: STABILITY & REACTIVITY

### Reactivity

Product will react with bases, giving off heat and possible splattering.

### Chemical Stability

Stable.

### Hazardous Reactions

Mixing with bases will give off heat and may cause splattering. Hazardous polymerization will not occur.

### Conditions to Avoid

Acidic liquid. Do not store near strong bases.

### Incompatible Materials

Strong bases.

### Hazardous Decomposition Products

Oxides of carbon, nitrogen, and phosphorus when taken to dryness.



---

**PENETONE AFW3**

Page: 5 of 7  
Date Prepared: June 17, 2015  
MSDS No.: 2553

---

---

**SECTION 11: TOXICOLOGICAL INFORMATION**

---

**Product Summary**

This product contains organic acids. Contact with skin and/or eyes, ingestion, or inhalation of spray mist may be corrosive. Possible effects may include severe irritation, burns, and permanent damage to exposed tissues if immediate action is not taken.

**Acute Toxicity:**

**Dermal:** LD50 > 5,000 g/kg rabbit (estimated using additivity formula)

**Inhalation:** No data available

**Oral:** LD50 > 5,000 mg/kg rat (estimated using additivity formula)

**Skin Corrosion/Irritation**

Short term exposure may be irritating. Longer term exposure may cause severe irritation or possibly burns. Prolonged or repeat skin exposures can result in dermatitis.

**Serious Eye Damage/Irritation**

Short term exposure may be irritating. Longer term exposure can cause serious eye damage which can result in severe irritation, pain and burns, and permanent damage including blindness.

**Sensitization - Respiratory or Skin**

Based upon components, product is not expected to be a respiratory or skin sensitizer.

**Germ Cell Mutagenicity**

Based upon components, product is not expected to result in germ cell mutagenicity.

**Carcinogenicity**

No material in this product is listed by IARC, NTP, or OSHA as a carcinogen.

**Reproductive / Developmental Toxicity**

No data for the product. Based upon component data, product not expected to be a reproductive or developmental toxicant.

Glycolic acid has produced effects in the fetus only at levels that were toxic to the parent animals

No reproductive effects were found after oral administration of 1.6 g apple cider vinegar per day (5% acetic acid) to pregnant rabbits, rats, or mice.

**Specific Target Organ Effects - Single Exposure**

No data.

**Specific Target Organ Effects - Repeated or Prolonged Exposure**

No data for the product.

Glycolic acid has produced liver, spleen, thymus, kidney, and gastrointestinal tract effects on repeated exposure.

**Aspiration Hazard**

Based upon components, product not expected to be an aspiration hazard.

---

**SECTION 12: ECOLOGICAL INFORMATION**

---

**Product Summary**

This material is acidic and may lower the pH of surface waters with low buffering capacity. Product considered nontoxic to aquatic organisms.



# SAFETY DATA SHEET

Penetone® Corporation, 700 Gotham Parkway, Carlstadt, NJ 07072

## PENETONE AFW3

Page: 6 of 7  
Date Prepared: June 17, 2015  
MSDS No.: 2553

### Ecotoxicity

LC50/EC50 100-250 (estimated using additivity formula)

### Persistence and Degradability

No data available. Surfactants used in this product are readily biodegradable.

### Bioaccumulative Potential

No data available. Because of ready biodegradability of surfactant, bioaccumulation potential considered low.

### Other Adverse Effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Product is a D002 Corrosive Hazardous Waste** under RCRA definitions. Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

**Note:** Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes. Appropriate hazardous waste designation is the responsibility of the user.

## SECTION 14: TRANSPORT INFORMATION

ID No.: UN3265  
Proper Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(contains acetic and hydroxyacetic acids)  
Hazard Class: 8  
Packing Group: III  
Label: CORROSIVE  
Marine Pollutant: no  
RQ: about 55,000 lbs (6,300 gallons) of product for acetic acid  
Special Precautions: none

## SECTION 15: REGULATORY INFORMATION

### TSCA

The ingredients in this product are listed on the TSCA inventory.

### RCRA HAZARD CLASS

D002 corrosive hazardous waste

**SARA 311/312 REPORTABLE HAZARD CATEGORIES:** Immediate (Acute) Health

### REPORTING REQUIREMENTS (all quantities in pounds)

Component	CAS / 313 Code	Section 302 (EHS) TPQ	Section 304 EHS RQ	CERCLA RQ (1)	Section 313	CAA 112(r) TQ	CWA / OPA
Acetic acid	64-19-7			5,000			
Product RQ for component				55,000 6,300 gal			



# SAFETY DATA SHEET

Penetone® Corporation, 700 Gotham Parkway, Carlstadt, NJ 07072

## PENETONE AFW3

Page: 7 of 7  
Date Prepared: June 17, 2015  
MSDS No.: 2553

(1) Releases exceeding the RQ just be reported to the National Response Center, 800-424-8802 and may be subject to state and local reporting.

### NEW JERSEY RIGHT-TO-KNOW INFORMATION

This product contains water (CAS# 7732-18-5), acetic acid (CAS# 64-19-7), hydroxyacetic acid (CAS# 79-14-1), nonylphenol ethoxylate (CAS# 9016-45-9), and 1-hydroxyethylidene-1,1-diphosphonic acid (CAS# 2809-21-4).

### CALIFORNIA PROPOSITION 65 INFORMATION

This product does not contain any chemicals recognized by the state of California to cause cancer and/or birth defects or reproductive harm.

### SCAQMD INFORMATION

Is there a photochemically reactive material present? No  
What is the % by volume of photochemically reactive material? 0  
What is the VOC content? 0  
What is the vapor pressure of VOC's? 0

## SECTION 16: OTHER INFORMATION

### REVISION SUMMARY

New GHS format

### SUPERSEDES ISSUE DATE

November 20, 2007

### HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	2	2
FLAMMABILITY	0	0
REACTIVITY	0	0
	B	

KEY  
4 = Severe  
3 = Serious  
2 = Moderate  
1 = Slight  
0 = Minimal

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER  
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 201-567-3000

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF PENETONE'S KNOWLEDGE. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.