

# Safety Data Sheet

## Acetic Acid 5%

### 1. Identification

**Product Identifier:** DP5700  
**Name:** Acetic Acid, 5%  
**Company Name:** Premier® Dental Products Company  
1710 Romano Drive  
Plymouth Meeting, PA 19462  
**Tel:** 610-239-6000  
**Fax:** 610-239-6171

**Recommended Use:** General purpose Reagent

### 2. Hazard Identification

#### 2.1. Classification of the Substance or Mixture (in accordance with OSHA HCS 29 CFR 1910.1200)

*For the full text of the Hazard and Precautionary Statements listed below, see Section 16.*

Hazard Class	Category	Hazard Statement	Precautionary Statements
Skin Corrosion / Irritation	Category 2	H315	P264, P280, P302+P352, P321, P332+P313, P362
Eye Damage / Irritation	Category 1	H318	P280, P305+P351+P338, P310
Respiratory Sensitizer	Category 1	H334	P261, P285, P304+P341, P342+P311, P501
Specific Target Organs/Systemic Toxicity Following Single Exposure	Category 1	H370	P260, P264, P270, P307+P311, P321, P405, P501
Specific Target Organs/Systemic Toxicity Following Repeated Exposure	Category 2	H373	P260, P314, P501

#### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

#### Hazard Statements:

Hazard Number	Hazard Statement
H315	Causes skin irritation.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

#### Precautionary Statements:

Precautionary Number	Precautionary Statement
P260	Do not breathe dust, fumes or mist.
P261	Avoid breathing dust, fumes or mist.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep 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.

- P307+P311 IF exposed: Call a POISON CENTER or physician.
- P310 Immediately call a POISON CENTER or physician.
- P314 Get medical attention if you feel unwell.
- P321 Specific treatment (Wash areas of contact with water).
- P332+P313 If skin irritation occurs: Get medical attention.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or physician.
- P362 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents in accordance with local, state, federal and international regulations.

### 2.3. WHMIS Classification

WHMIS classification is not included based on the recommended option (Option 4) found in the Canada Gazette Part II, Vol. 149, No.3, page 458

### 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available

## 3. Composition/Information on Ingredients

### 3.1. Components of Substance or Mixture

CAS No.	Chemical Name	Formula	Molecular Weight	Weight%
CAS: 7732-18-5	Water	H <sub>2</sub> O	18.01 g/mol	95.00%
CAS: 64-19-7	Acetic Acid	CH <sub>3</sub> COOH	60.05 g/mol	5.00%

## 4. First Aid Information

### 4.1. General First Aid Information

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation, redness, pain, and tearing.
- Inhalation: IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
- Skin Contact: IF ON SKIN: Wash with plenty of soap and water. May cause irritation, redness, and pain.
- Ingestion: Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Slightly corrosive. Wash areas of contact with water. If ingested, dilute with water and call a physician if necessary. EYE CONTACT: May cause irritation, redness, pain, and tearing. SKIN CONTACT: May cause irritation, redness, and pain.

### 4.3. Medical Attention or Special Treatment Needed

Immediately call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water).

## 5. Fire-Fighting Information

### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

### 5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

### 5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

## 6. Accidental Release Information

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

### 6.2. Cleanup and Containment Methods and Materials

Absorb with inert material (vermiculite, sand). Ventilate, if necessary, site of spillage well to evaporate remaining liquid and disperse vapor. Do not flush to sewer. Always comply with local, state, and federal regulations.

## 7. Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

## 8. Exposure Controls/Personal Protection

### 8.1. Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Acetic Acid (64-19-7)	TWA	USA	10 ppm TWA	U.S. - OSHA - Final PELs – Time Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TLV-STEL	USA	15 ppm STEL	ACGIH - Threshold Limit Values – Short Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-TWA	USA	10 PPM TWA	ACGIH - Threshold Limit Values – Time Weighted Averages (TLV-TWA)

### 8.2. Exposure Controls

- Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.  
Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate.  
Skin Protection: Wear protective gloves and eye protection. Chemical resistant gloves.  
Eye Protection: Wear protective gloves and eye protection. Safety glasses or goggles.

### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

## 9. Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

Appearance:	Colorless liquid
Physical State:	Liquid
Odor:	Vinegar-like
Odor Threshold:	Data not available.
pH:	2.4
Melting/Freezing Point:	Approximately 0°C
Initial Boiling Point /Range:	Approximately 100°C
Flash Point:	39°C (Acetic Acid)
Evaporation Rate:	Data not available.
Flammability:	Data not available.
Flammability/Explosive Limits:	Data not available.
Vapor Pressure:	Data not available.
Vapor Density:	Data not available.
Relative Density:	1.01
Solubility:	Miscible
Partition Coefficient ( <i>n-Octanol/Water</i> ):	Data not available.
Auto-Ignition Temperature:	Data not available.
Decomposition Temperature:	Data not available.
Viscosity:	Data not available.
Explosive Properties:	Data not available.
Oxidizing Properties:	Data not available.

## 10. Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Strong bases.

### 10.4. Hazardous Decomposition Products

Will not occur.

## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity – Oral Exposure:

Not applicable.

#### Acute Toxicity - Dermal Exposure:

Not applicable.

#### Acute Toxicity - Inhalation Exposure:

Not applicable.

#### Acute Toxicity - Other Information:

LD50, Oral, Rat (Acetic Acid): 3310 mg/kg; LD50, Dermal, Rabbit (Acetic Acid): 1.06 g/kg; LC50, Inhalation, Mouse (Acetic Acid): 5620 ppm/1 hr.; Information obtained from RTECS ("Registry of Toxic Effects of Chemical Substances").

#### Skin Corrosion and Irritation:

Causes skin irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: Wash with plenty of soap and water. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.

#### Serious Eye Damage and Irritation:

Causes serious eye damage. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### Respiratory Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing dust, fumes or mist. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

#### Skin Sensitization:

Not applicable.

#### Germ Cell Mutagenicity:

Not applicable.

#### Carcinogenicity:

Not applicable.

#### Reproductive Toxicity:

Not applicable.

#### Specific Target Organ Toxicity from Single Exposure:

Causes damage to organs. Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

#### Specific Target Organ Toxicity from Repeated Exposure:

May cause damage to organs through prolonged or repeated exposure. Do not breathe dust, fumes or mist. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

#### Aspiration Hazard:

Not applicable.

#### Additional Toxicology Information:

Data not available.

## 12. Ecological Information

### 12.1. Ecotoxicity

Not applicable.

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in Soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

### **13. Disposable Considerations**

#### **13.1. Waste Treatment Methods**

Data not available.

### **14. Transport Information**

#### **14.1. Transportation by Land - Department of Transportation (DOT, United States of America)**

Not regulated according to DOT Regulations.

### **15. Regulatory Information**

#### **15.1. Occupational Safety and Health Administration (OSHA) Hazards**

Not listed.

#### **15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances**

Not listed.

#### **15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals**

Acetic Acid (CAS # 64-19-7): 5000 lb final RQ; 2270 kg final RQ

#### **15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)**

Not listed.

#### **15.5. Massachusetts Right-to-Know Substance List**

Acetic Acid (CAS # 64-19-7): Present

#### **15.6. Pennsylvania Right-to-Know Hazardous Substances**

Acetic Acid (CAS # 64-19-7): Environmental hazard

Acetic Acid (CAS # 64-19-7): Present

Water (CAS # 7732-18-5): Present

#### **15.7. New Jersey Worker and Community Right-to-Know Components**

Acetic Acid (CAS # 64-19-7): corrosive

Acetic Acid (CAS # 64-19-7): sn 0004

#### **15.8. California Proposition 65**

Not listed.

#### **15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)**

Acetic Acid (CAS # 64-19-7): Present

Water (CAS # 7732-18-5): Present

#### **15.10. United States of America Toxic Substances Control Act (TSCA) List**

Acetic Acid (CAS # 64-19-7): Present

Water (CAS # 7732-18-5): Present

#### **15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)**

Not listed.

### **16. Other Information**

#### **16.1. Full Text of Hazard Statements and Precautionary Statements**

Causes skin irritation. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.

Do not breathe dust, fumes or mist. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water). If skin irritation occurs: Get medical attention. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

**16.2. Miscellaneous Hazard Classes**

Canadian Carcinogenicity Hazard Class: Not Applicable.  
Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.  
Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

**16.3. National Fire Protection Association (NFPA) Rating**

Health: 1  
Flammability: 0  
Reactivity: 0  
Special Hazard:



**16.4. Document Revision**

Revision Summary Complies with GHS OSHA requirements.

**Premier’s revision date:** 11/05/2015

**Revision Number:** 2

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