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.

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

2.2. GHS Label Elements

Pictograms:

Signal Word: Danger

Hazard Statements:

<table>
<thead>
<tr>
<th>Hazard Number</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

Precautionary Statements:

<table>
<thead>
<tr>
<th>Precautionary Number</th>
<th>Precautionary Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>P260</td>
<td>Do not breathe dust, fumes or mist.</td>
</tr>
<tr>
<td>P261</td>
<td>Avoid breathing dust, fumes or mist.</td>
</tr>
<tr>
<td>P264</td>
<td>Wash arms, hands and face thoroughly after handling.</td>
</tr>
<tr>
<td>P270</td>
<td>Do not eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td>P280</td>
<td>Wear protective gloves and eye protection.</td>
</tr>
<tr>
<td>P285</td>
<td>In case of inadequate ventilation wear respiratory protection.</td>
</tr>
<tr>
<td>P302+P352</td>
<td>IF ON SKIN: Wash with plenty of soap and water.</td>
</tr>
<tr>
<td>P304+P341</td>
<td>IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</td>
</tr>
<tr>
<td>P305+P351+P338</td>
<td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Chemical Name</th>
<th>Formula</th>
<th>Molecular Weight</th>
<th>Weight%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 7732-18-5</td>
<td>Water</td>
<td>H(_2)O</td>
<td>18.01 g/mol</td>
<td>95.00%</td>
</tr>
<tr>
<td>CAS: 64-19-7</td>
<td>Acetic Acid</td>
<td>CH(_3)COOH</td>
<td>60.05 g/mol</td>
<td>5.00%</td>
</tr>
</tbody>
</table>

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 dispel 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Limit Type</th>
<th>Country</th>
<th>Exposure Limit</th>
<th>Information Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetic Acid (64-19-7)</td>
<td>TWA</td>
<td>USA</td>
<td>10 ppm TWA</td>
<td>U.S. - OSHA - Final PELs – Time Weighted Averages (TWAs)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>25mg/m³ TWA</td>
<td></td>
</tr>
<tr>
<td>Acetic Acid (64-19-7)</td>
<td>TLV-STEL</td>
<td>USA</td>
<td>15 ppm STEL</td>
<td>ACGIH - Threshold Limit Values – Short Term Exposure Limits (TLV-STEL)</td>
</tr>
<tr>
<td>Acetic Acid (64-19-7)</td>
<td>TLV-TWA</td>
<td>USA</td>
<td>10 PPM TWA</td>
<td>ACGIH - Threshold Limit Values – Time Weighted Averages (TLV-TWA)</td>
</tr>
</tbody>
</table>

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

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

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

### 16.4. Document Revision

**Revision Summary:** Complies with GHS OSHA requirements.

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

**Revision Number:** 2

**Supplier number:** 082515

The information contained herein is based on our present knowledge. However, this information shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Premier Dental Products Company makes no warranties, express or implied with respect to, and assumes no responsibility or liability for, the accuracy or completeness of the information contained herein. Premier Dental Products Company urges persons receiving this information to make their own determination as to the information suitability for their particular application.

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