

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

070832501

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

070832519

## Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 11.28.2017

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### Patterson Etchant Gel (37%)

#### SECTION 1: Identification

##### Product identifier

**Product name:** Patterson Etchant Gel (37%)

**Product code:** 070832501, 070832519

##### Recommended use of the product and restriction on use

**Relevant identified uses:** For etching of tooth surfaces by dental professionals.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### Manufacturer or supplier details

###### Manufacturer:

###### Supplier

Patterson Companies, Inc.  
1031 Mendota Heights Road  
St. Paul, MN 55120  
1-800-328-5536 Fax:1-651-686-9331

##### Emergency telephone number:

###### United States

###### CHEMTREC

Within USA and Canada: 1-800-424-9300 (CHEMTREC, 24 hours)

Outside USA and Canada: +1-703-527-3887 (CHEMTREC, 24 hours)

#### SECTION 2: Hazard(s) identification

##### GHS classification:

Skin corrosion, category 1B

##### Label elements

###### Hazard pictograms:



**Signal word:** Danger

##### Hazard statements:

H314 Causes severe skin burns and eye damage

##### Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P264 Wash skin thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse

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### Patterson Etchant Gel (37%)

P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician

P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338+P310 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 doctor/physician.

P405 Store locked up

P501 Dispose of contents and container as instructed in Section 13

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 7664-38-2	Phosphoric Acid	37

**Additional Information:** None

### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

Not determined or not applicable.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Take precautions to ensure your own safety

Remove source of exposure or move person to fresh air and keep comfortable for breathing

Immediately call a POISON CONTROL CENTER or seek medical attention

If breathing has stopped, trained personnel should begin rescue breathing

Avoid mouth-to-mouth contact by using a barrier device

If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

##### After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Avoid direct contact and wear chemical protective clothing, if necessary

Immediately take off all contaminated clothing

Gently blot or brush away excess product

Rinse skin with lukewarm, gently flowing water until medical aid is available

Immediately call a POISON CONTROL CENTER or seek medical attention

Wash contaminated clothing before re-use or discard

##### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Avoid direct contact and wear chemical protective gloves, if necessary

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open

Remove contact lenses, if present and easy to do so

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### Patterson Etchant Gel (37%)

Continue rinsing until medical aid is available

Immediately call a POISON CONTROL CENTER or seek medical attention

#### After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting and rinse mouth

If vomiting occurs naturally, lie on your side, in the recovery position

If breathing has stopped, trained personnel should begin rescue breathing

Avoid mouth-to-mouth contact by using a barrier device

If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Not determined or not applicable.

##### Delayed symptoms and effects:

Not determined or not applicable.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

##### Unsuitable extinguishing media:

Not determined or not applicable.

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Not determined or not applicable.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

#### Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

#### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)

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### Patterson Etchant Gel (37%)

Dispose of contents / container in accordance with local regulations

#### Reference to other sections:

Not determined or not applicable.

### SECTION 7: Handling and storage

#### Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

#### Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Phosphoric Acid	7664-38-2	OSHA PEL TWA 1.0 mg/m <sup>3</sup>
	Phosphoric Acid	7664-38-2	STEL: 3 mg/m <sup>3</sup>
ACGIH	Phosphoric Acid	7664-38-2	ACGIH TLV TWA 1.0 mg/m <sup>3</sup>
	Phosphoric Acid	7664-38-2	ACGIH TLV STEL 3.0 mg/m <sup>3</sup>
NIOSH	Phosphoric Acid	7664-38-2	NIOSH REL TWA 1.0 mg/m <sup>3</sup>
	Phosphoric Acid	7664-38-2	NIOSH REL ST 3.0 mg/m <sup>3</sup>
	Phosphoric Acid	7664-38-2	IDLH: 1000 mg/m <sup>3</sup>

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

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### Patterson Etchant Gel (37%)

#### General hygienic measures:

- Avoid contact with skin, eyes and clothing.
- Wash hands before breaks and at the end of work.
- Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Blue Gel
Odor	Acrid
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Does not self ignite
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Does not present an explosion hazard
Oxidizing properties	Not determined or not available.

#### Other information

VOC	0%
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### SECTION 10: Stability and reactivity

#### Reactivity:

- Does not react under normal conditions of use and storage.

#### Chemical stability:

- Stable under normal conditions of use and storage.

#### Possibility of hazardous reactions:

- None under normal conditions of use and storage.

#### Conditions to avoid:

- None known.

#### Incompatible materials:

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### Patterson Etchant Gel (37%)

None known.

#### Hazardous decomposition products:

None known.

### SECTION 11: Toxicological information

#### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Skin corrosion/irritation

**Assessment:** Causes severe skin burns and eye damage

**Product data:**

No data available.

**Substance data:**

Name	Result
Phosphoric Acid	Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

#### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

#### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

#### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

#### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

#### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

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**Substance data:** No data available.

#### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

#### Information on likely routes of exposure:

No data available.

#### Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

#### Other information:

No data available.

### SECTION 12: Ecological information

#### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

#### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

#### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

#### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

#### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

### SECTION 13: Disposal considerations

#### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information

#### United States Transportation of dangerous goods (49 CFR DOT)

UN number	UN1805
UN proper shipping name	Phosphoric acid, aqueous solution




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## Patterson Etchant Gel (37%)

UN transport hazard class(es)	8	
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	
Reportable quantity	5000 lbs	

### International Maritime Dangerous Goods (IMDG)

UN number	UN1805	
UN proper shipping name	Phosphoric acid, aqueous solution	
UN transport hazard class(es)	8	
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	
EmS number	F-A, S-B	

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	UN1805	
UN proper shipping name	Phosphoric acid, aqueous solution	
UN transport hazard class(es)	8	
Packing group	III	
Environmental hazards	None	
Special precautions for user	None	

## SECTION 15: Regulatory information

### United States regulations

#### Inventory listing (TSCA):

7664-38-2	Phosphoric Acid	Listed
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**Significant New Use Rule (TSCA Section 5):** Not determined.

**Export notification under TSCA Section 12(b):** Not determined.

**SARA Section 302 extremely hazardous substances:** Not determined.

#### SARA Section 313 toxic chemicals:

7664-38-2	Phosphoric Acid	Not Listed
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#### CERCLA:

7664-38-2	Phosphoric Acid	Listed	5,000
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**RCRA:** Not determined.

**Section 112(r) of the Clean Air Act (CAA):** Not determined.

#### Massachusetts Right to Know:

7664-38-2	Phosphoric Acid	Listed
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### Patterson Etchant Gel (37%)

#### New Jersey Right to Know:

7664-38-2	Phosphoric Acid	Listed
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#### New York Right to Know:

7664-38-2	Phosphoric Acid	Listed
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#### Pennsylvania Right to Know:

7664-38-2	Phosphoric Acid	Listed
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**California Proposition 65:** None of the ingredients are listed.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 1-0-0-0

**HMIS:** 1-0-0-0

**Initial preparation date:** 11.28.2017

**End of Safety Data Sheet**