ACCLEAN
Safety Data Sheet – Pit and Fissure Sealant
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Date of issue: 1 Sept 2020  Revision date: 1 Sept 2020  Version: 1.0

SECTION 1: Identification
1.1. Identification
Product form : Mixture
Trade name : ACCLEAN

1.2. Recommended use and restrictions on use
Use of the substance/mixture : Dental product, dental pit and fissure sealant

1.3. Supplier
Distributed by: Henry Schein, Inc.
Address: 135 Duryea Road
City, State, Zip: Melville, NY 11747
Telephone: 1-800-472-4346

1.4. Emergency telephone number
Emergency number : 800-424-9300 (North America)
+1 (703) 527-3887 (International)

SECTION 2: Hazard(s) identification
2.1. Classification of the substance or mixture
GHS-US classification
Skin corrosion/iritation Category 2 Causes skin irritation
Serious eye damage/eye irritation Category 2A Causes serious eye irritation
Skin sensitization, Category 1 May cause an allergic skin reaction
Reproductive toxicity Category 1B May damage fertility or the unborn child

2.2. GHS Label elements, including precautionary statements
GHS US labeling
Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger
Hazard statements (GHS US) : Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation
May damage fertility or the unborn child
Precautionary statements (GHS US): Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing vapors.
Wash hands thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
If on skin: Wash with plenty of water
If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing
If exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hydroxyethyl methacrylate</td>
<td>(CAS-No.) 868-77-9</td>
<td>&gt; 0 - 30</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
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<tr>
<td></td>
<td></td>
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<td>Skin Sens. 1, H317</td>
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<tr>
<td>1-Propanone, 2-hydroxy-2-methyl-1-phenyl-</td>
<td>(CAS-No.) 7473-98-5</td>
<td>0.5 - 1.5</td>
<td>Acute Tox. 4 (Oral), H302</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide</td>
<td>(CAS-No.) 75980-60-8</td>
<td>0.5 - 1.5</td>
<td>Skin Sens. 1B, H317</td>
</tr>
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<td></td>
<td></td>
<td></td>
<td>Rep. 2, H361f</td>
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<td></td>
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<td></td>
<td>Aquatic Chronic 2, H411</td>
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<tr>
<td>Benzoic acid, 4-(dimethylamino)-, ethyl ester</td>
<td>(CAS-No.) 10287-53-3</td>
<td>0.5 - 1.5</td>
<td>Rep. 1B, H360</td>
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<td></td>
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<td>Aquatic Chronic 2, H411</td>
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<tr>
<td>Urethane dimethacrylate</td>
<td>(CAS-No.) 72869-86-4</td>
<td>&gt; 0 - 70</td>
<td>Eye Irrit. 2, H319</td>
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<td>Skin Irrit. 2, H315</td>
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<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>
SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Immediately rinse with plenty of water (for at least 15 minutes). Take off immediately all contaminated clothing and wash it before reuse. Get immediate medical advice/attention.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects: May damage fertility or the unborn child.
Symptoms/effects after inhalation: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact: Causes eye irritation.
Symptoms/effects after ingestion: May cause irritation to the digestive tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Unsuitable extinguishing media: None known.

5.2. Specific hazards arising from the chemical

Fire hazard: On combustion, forms: carbon oxides (CO and CO2).
Explosion hazard: No direct explosion hazard.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Exercise caution when fighting any chemical fire.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. In case of inadequate ventilation wear respiratory protection.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe vapors.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool.

Incompatible materials: Strong acids. Strong bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Control Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hydroxyethyl methacrylate (868-77-9)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>1-Propanone, 2-hydroxy-2-methyl-1-phenyl (7473-98-5)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
### Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide (75980-60-8)
*Not applicable*

### Benzoic acid, 4-(dimethylamino)-, ethyl ester (10287-53-3)
*Not applicable*

### Urethane dimethacrylate (72869-86)
*Not applicable*

#### 8.2. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls: Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

**Hand protection:**
Impermeable protective gloves

**Eye protection:**
Safety glasses with side shields

**Skin and body protection:**
Long sleeved protective clothing

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
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<tr>
<td>Appearance</td>
<td>Paste.</td>
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<td>Color</td>
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<td>Odor threshold</td>
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</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>&lt; 0 °C</td>
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<tr>
<td>Freezing point</td>
<td>No data available</td>
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<tr>
<td>Boiling point</td>
<td>&gt; 100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity / density</td>
<td>&gt; 1</td>
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</tbody>
</table>
Solubility : No data available
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Strong acids. Strong bases.

10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : May damage fertility or the unborn child.
Specific target organ toxicity – single exposure: Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity – repeated exposure: Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard: Not classified (Based on available data, the classification criteria are not met)

Viscosity, kinematic: No data available

Symptoms/effects: May damage fertility or the unborn child.

Symptoms/effects after inhalation: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact: Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact: Causes eye irritation.

Symptoms/effects after ingestion: May cause irritation to the digestive tract.

Other information: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general: This material has not been tested for environmental effects.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods
### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Notation</th>
<th>Inventory Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hydroxyethyl methacrylate</td>
<td>(868-77-9)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
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<td>(7473-98-5)</td>
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</tr>
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<td>Urethane dimethacrylate</td>
<td>(72869-86)</td>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Notation</th>
<th>Inventory Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-hydroxyethyl methacrylate</td>
<td>(868-77-9)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>1-Propanone, 2-hydroxy-2-methyl-1-phenyl</td>
<td>(7473-98-5)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
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<td>Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide</td>
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<td>Urethane dimethacrylate</td>
<td>(72869-86)</td>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
</tbody>
</table>

**EU-Regulations**

*National regulations*

#### 15.3. US State regulations

No additional information available

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*Products & Services for Healthcare Professionals*
SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 01 Sept 2020

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H315</th>
<th>Causes skin irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

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.
# Natural Elegance Pit and Fissure Sealant Kit - BPA Free

**Safety Data Sheet – Etch Liquid 40%**

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 1 Sept 2020  
Revision date: 1 Sept 2020  
Version: 1.0

## SECTION 1: Identification

| 1.1. Identification |  
|---------------------|---|
| **Product form**    | Liquid Mixture |
| **Trade name**      | Etch Liquid 40% |

### 1.2. Recommended use and restrictions on use

**Use of the substance/mixture**: Designed to etch and prepare dentin and enamel

### 1.3. Supplier

Distributed by: Henry Schein, Inc.  
Address: 135 Duryea Road  
City, State, Zip: Melville, NY 11747  
Telephone: 1-800-472-4346

### 1.4. Emergency telephone number

**Emergency number**: 800-424-9300 (North America) / +1 (703) 527-3887  
(International)

## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

- **Corrosive to metals Category 1**: May be corrosive to metals
- **Skin corrosion/irritation Category 1B**: Causes severe skin burns and eye damage
- **Serious eye damage/eye irritation Category 1**: Causes serious eye damage

### 2.2. GHS Label elements, including precautionary statements

**GHS-US labeling**

- **Hazard pictograms (GHS-US)**:  
- **Signal word (GHS-US)**: Danger  
- **Hazard statements (GHS-US)**: May be corrosive to metals  
  Causes severe skin burns and eye damage  
  Causes serious eye damage
Precautionary statements (GHS-US):
- Keep only in original container.
- Do not breathe mist, spray, vapors.
- Wash hands thoroughly after handling.
- Wear eye protection, protective clothing, protective gloves.
- If swallowed: rinse mouth. Do NOT induce vomiting
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If inhaled: 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.
- Immediately call a doctor, a POISON CENTER
- Absorb spillage to prevent material-damage.
- Store locked up.
- Store in corrosive resistant container with a resistant inner liner.
- Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if necessary. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash off immediately and plentifully with water for at least 20 minutes. Take off immediately all contaminated clothing and wash it before reuse. Get immediate medical advice/attention.
First-aid measures after eye contact: In case of eye contact, immediately rinse with clean water for 20-30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical advice.

First-aid measures after ingestion: Rinse mouth. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation: Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Symptoms/effects after skin contact: Causes severe burns.

Symptoms/effects after eye contact: Causes serious eye burns.

Symptoms/effects after ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


Unsuitable extinguishing media: None known.

5.2. Specific hazards arising from the chemical

Fire hazard: On combustion, forms: carbon oxides (CO and CO2). Phosphorus oxides.

Explosion hazard: No direct explosion hazard.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions: Exercise caution when fighting any chemical fire.

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid contact with skin, eyes and clothing. Avoid all eye and skin contact and do not breathe vapor and mist.

6.1.1. For non-emergency personnel

Protective equipment: Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures: Ventilate spillage area.
6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. In case of inadequate ventilation wear respiratory protection.

Emergency procedures: Stop leak if safe to do so. Ventilate spillage area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Provide local exhaust or general room ventilation to minimize vapor concentrations. Avoid contact with skin and eyes. Do not breathe mist, spray, vapors. Wear personal protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.


SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>phosphoric acid (7664-38-2)</th>
<th>Local name</th>
<th>AC/NIOSH 2005 (mg/m³)</th>
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<tbody>
<tr>
<td>ACGIH</td>
<td>Phosphoric acid</td>
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<tr>
<td>ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
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<tr>
<td>ACGIH</td>
<td>ACGIH STEL (mg/m³)</td>
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<td>ACGIH</td>
<td>Remark (ACGIH)</td>
<td>URT, eye, &amp; skin irr</td>
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<td>Regulatory reference</td>
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<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
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<td>NIOSH</td>
<td>NIOSH REL (STEL) (mg/m³)</td>
<td>3 mg/m³</td>
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</table>
8.2. Appropriate engineering controls

Appropriate engineering controls: Provide local exhaust or general room ventilation to minimize vapor concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

**Hand protection:**
Impermeable protective gloves

**Eye protection:**
Safety glasses with side shields

**Skin and body protection:**
Long sleeved protective clothing

**Respiratory protection:**
In case of insufficient ventilation, wear suitable respiratory equipment. An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid</td>
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<td>Color</td>
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<td>Odor</td>
<td>Odorless</td>
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</tr>
<tr>
<td>pH</td>
<td>1 - 1.5</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butyl acetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.25 - 1.3 g/cm³ (25 °C / 77 °F)</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosion limits: No data available
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Do not expose to heat.

10.5. Incompatible materials
Metals. Oxidising agents.

10.6. Hazardous decomposition products
No hazardous decomposition products known at room temperature. On combustion, forms: carbon oxides (CO and CO2). Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral): Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal): Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation): Not classified (Based on available data, the classification criteria are not met)

**phosphoric acid (7664-38-2)**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1530 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>2740 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 850 mg/m³ (Exposure time: 1 h)</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes severe skin burns and eye damage.
  pH: 1 - 1.5

Serious eye damage/irritation: Causes serious eye damage.
  pH: 1 - 1.5

Respiratory or skin sensitization: Not classified (Based on available data, the classification criteria are not met)

Products & Services for Healthcare Professionals
<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
</tbody>
</table>

| Likely routes of exposure                     | Inhalation. Ingestion. Skin and eye contact.       |
| Symptoms/effects after inhalation            | Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. |
| Symptoms/effects after skin contact          | Causes severe burns.                               |
| Symptoms/effects after eye contact           | Causes serious eye burns.                          |
| Symptoms/effects after ingestion             | May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. |

### SECTION 12: Ecological information

<table>
<thead>
<tr>
<th>12.1. Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ecology - general</td>
</tr>
<tr>
<td>This material has not been tested for environmental effects.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12.2. Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12.3. Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12.4. Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>12.5. Other adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>No additional information available</td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

<table>
<thead>
<tr>
<th>13.1. Disposal methods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste treatment methods</td>
</tr>
<tr>
<td>Dispose of contents/container in accordance with licensed collector’s sorting instructions.</td>
</tr>
</tbody>
</table>

### SECTION 14: Transport information

<table>
<thead>
<tr>
<th>Department of Transportation (DOT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In accordance with DOT</td>
</tr>
<tr>
<td>Transport document description</td>
</tr>
<tr>
<td>UN1805 Phosphoric acid solution, 8, III</td>
</tr>
</tbody>
</table>
UN-No.(DOT) : UN1805
Proper Shipping Name (DOT) : Phosphoric acid solution
Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 8 - Corrosive

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Special Provisions (49 CFR 172.102) : A7 - Steel packaging must be corrosion-resistant or have protection against corrosion.
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 °C (1.1 bar at 122 °F), or 130 kPa at 55 °C (1.3 bar at 131 °F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.
T4 - 2.65 178.274(d)(2) Normal............. 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154
DOT Quantity Limitations
Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number : 154
Other information : No supplementary information available.

Products & Services for Healthcare Professionals
Transportation of Dangerous Goods

Transport document description: UN1805 PHOSPHORIC ACID, SOLUTION, 8, III
UN-No. (TDG): UN1805
Proper Shipping Name (Transportation of Dangerous Goods): PHOSPHORIC ACID, SOLUTION
TDG Primary Hazard Classes: 8 - Class 8 - Corrosives
Packing group: III - Minor Danger
Explosive Limit and Limited Quantity Index: 5 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index: 5 L

Transport by sea

Transport document description (IMDG): UN 1805 PHOSPHORIC ACID SOLUTION, 8, III
UN-No. (IMDG): 1805
Proper Shipping Name (IMDG): PHOSPHORIC ACID SOLUTION
Class (IMDG): 8 - Corrosive substances
Packing group (IMDG): III - substances presenting low danger

Air transport

Transport document description (IATA): UN 1805 Phosphoric acid, solution, 8, III
UN-No. (IATA): 1805
Proper Shipping Name (IATA): Phosphoric acid, solution
Class (IATA): 8 - Corrosives
Packing group (IATA): III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

phosphoric acid (7664-38-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
CERCLA RQ: 5000 lb

15.2. International regulations

CANADA
phosphoric acid (7664-38-2)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

phosphoric acid (7664-38-2)
**phosphoric acid (7664-38-2)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

**phosphoric acid (7664-38-2)**

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)

### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 1 Sept 2020

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H290</td>
<td>May be corrosive to metals</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
</tbody>
</table>

SDS US (GHS HazCom 2012)

*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.*