1 Identification of the substance/mixture and of the company/undertaking

· Product identifier

· Trade name: Astringedent™ Spot Remover

· Article number: 10326

· Index number: SDS 79-001.07

· Relevant identified uses of the substance or mixture and uses advised against Spot & Stain Remover

· Application of the substance / the mixture Spot & Stain Remover

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:
  Ultradent Products Inc.
  505 W. Ultradent Drive (10200 S)
  South Jordan, UT 84095-3942
  USA
  onlineordersupport@utradent.com

EC Responsible Person
Ultradent Products GmbH
Am Westhover Berg 30
51149 Cologne Germany
Email: infoDe@ultradent.com
Emergency Phone: +49(0)2203-35-92-0

· Further information obtainable from: Customer Service

· Emergency telephone number:
  CHEMTREC (NORTH AMERICA) :(800) 424-9300
  (INTERNATIONAL) : +(703) 527-3887

2 Hazards identification

· Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

  GHS06 skull and crossbones

  Acute Tox. 3  H331  Toxic if inhaled.

  GHS05 corrosion

  Skin Corr. 1B  H314  Causes severe skin burns and eye damage.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008 Void

· Hazard pictograms

  GHS05  GHS06

· Signal word Danger
Safety data sheet  
according to 1907/2006/EC, Article 31

Printing date 12.04.2019  
Revision: 26.11.2018

Trade name: Astringedent™ Spot Remover

- **Hazard-determining components of labelling:**
  - Phosphoric Acid
- **Hazard statements**
  - H331 Toxic if inhaled.
  - H314 Causes severe skin burns and eye damage.
- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read label before use.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER/doctor.
  - P321 Specific treatment (see on this label).
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation:** Mixtures
  - **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 7664-38-2 Phosphoric Acid &lt;40%</td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**
  - **General information:**
    - Immediately remove any clothing soiled by the product.
    - Remove breathing equipment only after contaminated clothing have been completely removed.
    - In case of irregular breathing or respiratory arrest provide artificial respiration.
  - **After inhalation:**
    - Supply fresh air or oxygen; call for doctor.
    - In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:**
    - Immediately wash with water and soap and rinse thoroughly.
  - **After eye contact:**
    - Rinse opened eye for several minutes under running water. Then consult a doctor.
  - **After swallowing:**
    - Drink plenty of water and provide fresh air. Call for a doctor immediately.
  - **Information for doctor:**
    - **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)
Trade name: Astringedent® Spot Remover

48. Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture
  During heating or in case of fire poisonous gases are produced.
- Advice for firefighters:
- Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Mount respiratory protective device.
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Use neutralising agent.
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and storage

- Handling:
  - Precautions for safe handling:
    Ensure good ventilation/exhaustion at the workplace.
    Open and handle receptacle with care.
    Prevent formation of aerosols.
- Information about fire - and explosion protection: Keep respiratory protective device available.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    See product labelling.
    Keep container tightly sealed.
  - Specific end use(s) Spot & Stain Remover

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
· Control parameters

- Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>7664-38-2 Phosphoric Acid</th>
<th>WEL (Great Britain)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Short-term value: 2 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 1 mg/m³</td>
</tr>
</tbody>
</table>

· Additional information: The lists valid during the making were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Store protective clothing separately.
  Avoid contact with the eyes and skin.

· Respiratory protection:
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:

  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

  The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

  The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

  Tightly sealed goggles

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:
  - Form: Liquid
  - Colour: Colourless
  - Odour: Acidic
  - Odour threshold: Not determined.
Trade name: Astringedent® Spot Remover

### 48.0 pH-value at 20 °C:
- <1

### Change in condition
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined.

### Flash point:
- Not applicable.

### Flammability (solid, gas):
- Not applicable.

### Decomposition temperature:
- Not determined.

### Auto-ignition temperature:
- Product is not selfigniting.

### Explosive properties:
- Product does not present an explosion hazard.

### Explosion limits:
- **Lower:** Not determined.
- **Upper:** Not determined.

### Vapour pressure:
- Not determined.

### Density at 20 °C:
- 1.17 g/cm³

### Relative density:
- Not determined.

### Vapour density:
- Not determined.

### Evaporation rate:
- Not determined.

### Solubility in / Miscibility with water:
- Partly soluble.

### Partition coefficient: n-octanol/water:
- Not determined.

### Viscosity:
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

### Solvent content:
- **Water:** <80 %
- **VOC (EC):** 0.00 %
- **Other information:** Brix 19.0 - 21.0

### 10 Stability and reactivity

#### Reactivity
- No further relevant information available.

#### Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.

#### Incompatible materials
- No further relevant information available.

#### Hazardous decomposition products
- No dangerous decomposition products known.

### 11 Toxicological information

#### Information on toxicological effects
- **Acute toxicity**
  - Toxic if inhaled.
Trade name: Astringedent™ Spot Remover

48.0 · LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>ATE (Acute Toxicity Estimates)</th>
<th>Oral LD50</th>
<th>4,952 mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalative LC50/4 h</td>
<td>1.37 mg/l (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7664-38-2 Phosphoric Acid</th>
<th>Oral LD50</th>
<th>1,530 mg/kg (rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dermal LD50</td>
<td>2,740 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>Inhalative LC50/4 h</td>
<td>0.42225 mg/l (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

· Primary irritant effect:
  · Skin corrosion/irritation
    Causes severe skin burns and eye damage.
  · Serious eye damage/irritation
    Causes severe skin burns and eye damage.
  · Respiratory or skin sensitisation
    Based on available data, the classification criteria are not met.
  · CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
    · Germ cell mutagenicity
      Based on available data, the classification criteria are not met.
    · Carcinogenicity
      Based on available data, the classification criteria are not met.
  · Reproductive toxicity
    Based on available data, the classification criteria are not met.
  · STOT-single exposure
    Based on available data, the classification criteria are not met.
  · STOT-repeated exposure
    Based on available data, the classification criteria are not met.
  · Aspiration hazard
    Based on available data, the classification criteria are not met.

12 Ecological information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability: No further relevant information available.
  · Behaviour in environmental systems:
  · Bioaccumulative potential: No further relevant information available.
  · Mobility in soil: No further relevant information available.
· Additional ecological information:
· General notes:
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  Must not reach sewage water or drainage ditch undiluted or unneutralized.
  Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.
  · Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods
· Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
### 14 Transport information

- **UN-Number**
  - ADR, IMDG, IATA: UN1805

- **UN proper shipping name**
  - ADR
  - IMDG, IATA
  - 1805 PHOSPHORIC ACID, SOLUTION

- **Transport hazard class(es)**
  - ADR, IMDG, IATA
  - Class: 8 Corrosive substances.
  - Label: 8

- **Packing group**
  - ADR, IMDG, IATA: III

- **Environmental hazards:**
  - Not applicable.

- **Special precautions for user**
  - Warning: Corrosive substances.

- **EMS Number:**
  - F-A,S-B

- **Segregation groups**
  - Acids

- **Stowage Category**
  - A

- **Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**

  - **ADR**
    - Limited quantities (LQ): 5L
    - Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml

  - **Transport category**
    - 3

  - **Tunnel restriction code**
    - E

  - **IMDG**
    - Limited quantities (LQ): 5L
    - Code: E1
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 1000 ml
Trade name: Astringedent® Spot Remover

UN "Model Regulation":
UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III

15 Regulatory information

- Directive 2012/18/EU
- Seveso category H2 ACUTE TOXIC
- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- Chemical safety assessment:
  This product is an acid and as such is toxic. This product is not for near patient use. Use only as directed

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  H290 May be corrosive to metals.
  H302 Harmful if swallowed.
  H314 Causes severe skin burns and eye damage.
  H330 Fatal if inhaled.

- Department issuing SDS: Regulatory Affairs
- Contact: Customer Service
- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  VOC: Volatile Organic Compounds (USA, EU)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPoB: very Persistent and very Bioaccumulative
  Met. Corr. 1: Corrosive to metals – Category 1
  Acute Tox. 4: Acute toxicity – Category 4
  Acute Tox. 1: Acute toxicity – Category 1
  Acute Tox. 3: Acute toxicity – Category 3
  Skin Corr. 1B: Skin corrosion/irritation – Category 1B