SECTION I: Identification

Product Identifier:
Product Name: Lorvic™ Bonding Prep
Part/Item Number: 039110
Product Class: Prophylaxis Paste Powder

Recommended Use of the Substance or Mixture and Restrictions on Use:
Recommended Use: Recommended for use prior to sealant application, orthodontic bonding and bracketing, and bonded restorations. Mix Lorvic Bonding Prep with water to use as a prophylaxis paste.
Restrictions on Use: For professional use only

Details of the Supplier:
Manufactured by: Young Dental Manufacturing
13705 Shoreline Court East
Earth City, MO 63045
1.800.325.1881

Emergency Phone Number:
Infotrac:
24-Hour Number- (U.S.) 1-800-535-5053
Outside U.S.- 1-352-323-3500

SECTION II: Hazard(s) Identification

Classification of the Substance or Mixture:

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

Label Elements:

Hazard Statement(s): Not applicable
Precautionary Statement(s): Not applicable
Other Hazards: Not applicable

SECTION III: Composition/Information on Ingredients

Mixture:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>WT%</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfamic Acid</td>
<td>5329-14-6</td>
<td>3%</td>
<td>Skin Irritation Category 2, Eye Irritation Category 2</td>
</tr>
</tbody>
</table>
SECTION IV: First-Aid Measures

Description of First Aid Measures:
Ingestion – If a patient ingests an excessive amount of paste, consult a physician. Do not induce vomiting.
Eye contact – Rinse eyes with water for 15 minutes.
Skin contact – Wash skin with soap and water.

Most Important Symptoms and Effects, Acute and Delayed: Irritant effects

Indication of Any Immediate Medical Attention and Special Treatment Needed:
Ingestion – If a child ingests 10g or more of paste (5 unit dose cups), seek immediate medical attention. If an adult ingests 100g or more of paste (50 unit dose cups), seek medical attention.
Eye contact - Seek medical attention if irritation persists.
Skin contact – Seek medical attention if irritation persists.

SECTION V: Firefighting Measures

Extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Hazards Arising from the Substance or Mixture: Sulfamic acid is not combustible. Ambient fire may liberate hazardous vapours. Fire may cause evolution of sulphur dioxides and nitrogen oxides.

Advice for Fire-Fighters:
Fire Fighting Procedures - Fight fire from a safe distance or protected location.
Precautions for Fire Fighters - Do not enter fire area without proper protection. Firefighters should wear full emergency equipment and an approved pressure self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing protective clothing.

SECTION VI: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid contact with skin and eyes.
Methods and Materials for Containment and Cleaning Up: Collect the material into acceptable containers.

SECTION VII: Handling and Storage

Precautions for Safe Handling: Keep product in tightly sealed container.
Conditions for Safe Storage, Including Any Incompatibilities: Store in cool, dry areas.

SECTION VIII: Exposure Controls/Personal Protection

Control Parameters:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfamic Acid</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Exposure Controls:
Appropriate Engineering Controls – Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.
Individual Protection Measures (PPE) - Wear protective clothing and eye wear. Wash hands thoroughly after use.

SECTION IX: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Information on Physical and Chemical Properties:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance: Light gray powder</td>
</tr>
<tr>
<td>Odor: Slight mint aroma</td>
</tr>
</tbody>
</table>
Odor Threshold: Not applicable
pH: Not determined
Melting point/freezing point: Not applicable
Initial boiling point and boiling range: Not applicable
Flash point: Not determined
Evaporation rate (Butyl Acetate =1): Not applicable
Flammability (solid, gas): Not determined
Upper/lower flammability or exposure limits: Not applicable
Vapor pressure: Not applicable
Vapor density (Air = 1): Not applicable
Relative density: Not determined
Solubility(ies): Soluble except for dental abrasives
Partition coefficient: n-octano/water Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: Not determined
Specific gravity (Water = 1): .88

SECTION X: Stability and Reactivity

Reactivity: None known
Chemical Stability: Stable
Possibility of hazardous reactions: Not applicable
Conditions to avoid: Not applicable
Incompatible materials: Not applicable
Hazardous decomposition products: Not applicable

SECTION XI: Toxicological Information

Potential Health Effects:
Ingestion – May cause irritation of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract.
Eye Contact – Eye contact may cause severe irritation.
Skin Contact – May cause skin irritation.
Inhalation – May cause cough, shortness of breath, and irritation symptoms in the respiratory tract.

Acute Toxicity Data:
Sulfamic Acid – LD50 (oral rat) > 2,000 mg/kg

Carcinogenicity: OSHA, IARC, and NTP do not list sulfamic acid as a carcinogen.

SECTION XII: Ecological Information

Toxicity:
Sulfamic Acid – LC50: 70.4 mg/l/96 h (pimephales promelas - fathead minnow), OECD test guideline 203

Persistence and Degradability: Not determined

Bio-accumulative potential:
Sulfamic Acid – Bioaccumulations is not expected (log Pow 0.1)
Mobility in Soil: Not determined

Other Adverse Effects: Harmful biological effect due to pH shift. Do not allow to run into surface waters, wastewater, or soil.

SECTION XIII: Disposal Considerations

Dispose of in accordance with all Federal, State and Local regulations.

SECTION XIV: Transport Information

Not regulated

SECTION XV: Regulatory Information

Not applicable

SECTION XVI: Other Information

Supersedes: 29 January 2013
Date Revised: 8 July 2015

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Young Dental Manufacturing makes no recommendation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for particular purpose.

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