Material Safety Data Sheet

Material Name: GALVAPREP® SG
ID: 234452

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name GALVAPREP® SG
Manufacturer Information
Henkel Surface Technologies
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Contact Phone: (248) 583-9300
Chemtrec Emergency # (800) 424-9300

*** Section 2 - Composition / Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>13598-37-3</td>
<td>Zinc dihydrogen phosphate</td>
<td>1-10</td>
</tr>
<tr>
<td>10381-36-9</td>
<td>Nickel Dihydrogen Phosphate</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

Component Related Regulatory Information
This product may be regulated, have exposure limits or other information identified as the following: Zinc compounds, Nickel soluble compounds, Nickel, inorganic compounds, Nickel compounds.

*** Section 3 - Hazards Identification ***

Emergency Overview:
DANGER -- CORROSIVE! Contact with this material will cause burns to the skin, eyes and mucous membranes.

Eye Contact:
This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.

Skin Contact:
Contact with liquid may produce severe skin irritation including redness, inflammation and chemical burns. This product may discolor the skin. This product contains a component that may cause allergic skin reactions.

Skin Absorption:
None expected.

Ingestion:
This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Inhalation:
Inhalation of mists of this product may cause severe irritation and burns to the respiratory tract.

Medical Conditions Aggravated by Exposure:
Pre-existing eye, skin and respiratory disorders.

*** Section 4 - First Aid Measures ***

Eye Contact:
In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Skin Contact:
Immediately take off all contaminated clothing. For skin contact, flush with large amounts of water. Seek immediate medical attention.

Ingestion:
If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

Inhalation:
If mist or vapor of this product is inhaled, remove person immediately to fresh air. Seek medical attention if symptoms develop or persist.

First Aid: Notes to Physician
No additional information available.
**Material Safety Data Sheet**

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### Section 5 - Fire Fighting Measures

**Flash Point:** Not applicable  
**Method Used:** Not applicable  
**Flammability Classification:** Non-flammable

<table>
<thead>
<tr>
<th>Upper Flammable Limit (UFL)</th>
<th>Lower Flammable Limit (LFL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**Fire & Explosion Hazards:**

This product is an aqueous mixture which will not burn.

**Decomposition Products:**

Irritating and toxic gases or fumes may be released during a fire.

**Extinguishing Media:**

Use any media suitable for the surrounding fires.

**Fire-Fighting Instructions:**

Firefighters should wear full protective clothing including self contained breathing apparatus.

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### Section 6 - Accidental Release Measures

**Containment Procedures:**

Stop the flow of material, if this is without risk. Wear appropriate protective equipment and clothing during clean-up.

**Clean-Up Procedures:**

Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of collected material according to regulation.

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### Section 7 - Handling and Storage

**Handling Procedures:**

Do not get this material in your eyes, on your skin, or on your clothing. Do not take internally. Wash thoroughly after handling. Do not inhale vapors or mists of this product.

**Storage Procedures:**

Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

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### Section 8 - Exposure Controls / Personal Protection

**Exposure Guidelines:**

- **A: General Product Information**
  - Follow all applicable exposure limits.

- **B: Component Exposure Limits**
  - **Nickel Dihydrogen Phosphate** (10381-36-9)
    - OSHA: 1 mg/m³ TWA (as Ni) (related to Nickel soluble compounds)
    - NIOSH: 0.015 mg/m³ TWA (as Ni) (related to Nickel compounds)

**Engineering Controls:**

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

**PERSONAL PROTECTIVE EQUIPMENT**

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a Hazard Assessment of all workplaces to determine the need for, and selection of, proper protective equipment for each task performed.

**Eyes/Face Protective Equipment:**

- Wear chemical goggles; face shield (if splashing is possible).

**Skin Protection:**

- Use impervious gloves. Gloves should be tested to determine suitability for prolonged contact. Use of impervious apron and boots are recommended.
Respiratory Protection:
If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Work Practices:
Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>No odor</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.25 - 1.35</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility Water:</td>
<td>Complete</td>
</tr>
<tr>
<td>Percent Volatile:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Light green</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>&gt;210 °F (&gt;98.9 °C)</td>
</tr>
<tr>
<td>pH:</td>
<td>&lt;2.0</td>
</tr>
<tr>
<td>VOC:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Percent Solids:</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:
Stable under normal conditions.

Conditions to Avoid:
None expected.

Incompatibility:
This product may react with strong alkalies.

Decomposition Products:
 Decomposes with heat to produce oxides of nitrogen.

Hazardous Polymerization:
Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity:
A: General Product Information
No information available for the product.

B: Component Analysis - LD50/LC50
Zinc dihydrogen phosphate (13598-37-3)
Oral LD50 Rat: 1990 mg/kg; Oral LD50 Mouse: 1610 mg/kg

Carcinogenicity:
A: General Product Information
No information available for the product.

B: Component Carcinogenicity
Nickel Dihydrogen Phosphate (10381-36-9)
NIOSH: potential occupational carcinogen (related to Nickel compounds)
NTP: Known Carcinogen (related to Nickel compounds) (Select Carcinogen)
IARC: Monograph 49, 1990; (Evaluated as a group) (related to Nickel compounds) (Group 1 (carcinogenic to humans))

Chronic Toxicity
No information available.

Epidemiology:
No information available for the product.

Neurotoxicity:
No information available for the product.
Mutagenicity:
No information available for the product.

Teratogenicity:
No information available for the product.

Other Toxicological Information:
None available.

*** Section 12 - Ecological Information ***

Ecotoxicity:
A: General Product Information
No data available for this product. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity
No ecotoxicity data are available for this product's components.

Environmental Fate:
No data is available concerning the environmental fate, biodegradation or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Numbers & Descriptions:
A: General Product Information
This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002). This chemical contains phosphates.

B: Component Waste Numbers
No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions:
Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information
Shipping Name: Please refer to the container label for transportation information.

*** Section 15 - Regulatory Information ***

US Federal Regulations
A: General Product Information
No additional information available.

B: Component Analysis
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).
Zinc dihydrogen phosphate (13598-37-3)
SARA 313: 1.0 percent de minimis concentration (Chemical Category N982) (related to Zinc compounds)

SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactive: No

State Regulations
A: General Product Information
No additional information available.
B: Component Analysis - State
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc dihydrogen phosphate (related to Zinc compounds)</td>
<td>13598-37-3</td>
<td>Yes¹</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Nickel Dihydrogen Phosphate (related to Nickel compounds) (related to Nickel soluble compounds)</td>
<td>10381-36-9</td>
<td>Yes¹</td>
<td>No</td>
<td>No</td>
<td>Yes²</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Other Regulations
A: General Product Information
All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis - Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>DSL</th>
<th>EINECS</th>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
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C: Component Analysis - WHMIS IDL
No components are listed in the WHMIS IDL.

*** Section 16 - Other Information ***

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
HMIS Ratings: Health: 3 Fire: 0 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend
EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NFPA = National Fire Protection Association; HMIS = Hazardous Material Identification System; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Henkel Surface Technologies bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Regulatory Affairs and Product Acceptance
Contact Phone: (248) 583-9300

This is the end of MSDS # 234452