1. **Product and Company Identification**

**Product Identifier**
- **Trade Name:** Positive Plate Developer
- **Item Number(s):** PPDEV

**Relevant Identified Uses of the Substance or Mixture:**
Photographic plate developer for use with “Positive” metal plates.

**Restrictions on Use:**
- For Industrial Use Only

**Manufacturer/Supplier:**
- Applied Chemistries, Inc.
  - 65 Moylan Lane
  - Agawam, MA 01001
  - (877) 847-6236

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC (800-424-9300 within the USA or 703-527-3887 for international collect calls)

2. **Hazard(s) Identification**

**GHS Classification and Label Elements of the Product**

**Pictograms:**

**Signal Word:** DANGER

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Danger</td>
<td><strong>H314:</strong> Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>1</td>
<td>Danger</td>
<td><strong>H318:</strong> Causes serious eye damage.</td>
</tr>
</tbody>
</table>
Precautionary Statements

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P260:</strong> Do not breathe dust/fume/gas/mist/vapours/spray.</td>
<td><strong>P301+</strong> IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</td>
</tr>
<tr>
<td><strong>P264:</strong> Wash hands thoroughly after handling.</td>
<td><strong>P330+</strong> IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</td>
</tr>
<tr>
<td><strong>P280:</strong> Wear protective gloves/protective clothing/eye protection/face protection.</td>
<td><strong>P331:</strong> IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</td>
</tr>
<tr>
<td><strong>P303+</strong></td>
<td><strong>P353:</strong> Wash contaminated clothing before reuse.</td>
</tr>
<tr>
<td><strong>P361+</strong></td>
<td><strong>P363:</strong></td>
</tr>
<tr>
<td><strong>P304+</strong> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
<td><strong>P300:</strong></td>
</tr>
<tr>
<td><strong>P330:</strong></td>
<td><strong>P310:</strong> Immediately call a POISON CENTER or doctor/physician.</td>
</tr>
<tr>
<td><strong>P340:</strong></td>
<td><strong>P351+</strong></td>
</tr>
<tr>
<td><strong>P338:</strong></td>
<td><strong>P370:</strong></td>
</tr>
</tbody>
</table>

Storage

| P405: Store locked up. |

Disposal

| P501: Dispose of contents/container according to local/regional regulations. |

3. Composition/Information on Ingredients

Chemical Characterization:

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS #</th>
<th>Concentration % by Weight</th>
<th>GHS Hazard Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Metasilicate</td>
<td>10213-79-3</td>
<td>6-12%</td>
<td>H302, H314, H335</td>
</tr>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>1-5%</td>
<td>H290, H314, H402</td>
</tr>
</tbody>
</table>
# 4. First Aid Measures

**Inhalation:**
Remove victim to fresh air. Administer oxygen if breathing is difficult. Seek medical attention if respiratory irritation or distress continues.

**Skin Contact:**
Wash with plenty of soap and water for no less than 15 minutes. Wash contaminated clothing before reuse.

**Eye Contact:**
Flush with a gentle, steady stream of water for at least 15 minutes. Seek medical attention.

**Ingestion:**
Do NOT induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Do not leave victim unattended. Immediately call a POISON CENTER or doctor/physician.

# 5. Fire Fighting Measures

**Suitable Extinguishing Media:**
Dry chemical, carbon dioxide, foam, water spray.

**Specific Fire Fighting Measures:**
Apply water from a safe distance to cool and protect surrounding area.

**Unusual Fire and Explosion Hazards:**
N/A

**Special Protective Equipment and Precautions for Fire Fighters:**
None

# 6. Accidental Release Measures

**Personal Precautions,**
Wear proper protective equipment.

**Protective Equipment and Emergency Procedures:**
Dispose according to State, Federal and Local regulations.

**Environmental Precautions:**
Avoid runoff to waterways and sewers.

# 7. Handling and Storage

**Precautions for Safe Handling:**
- Protect against physical damage.
- Store in a cool, dry, well ventilated location away from heat/sparks/open flame.
- Separate from incompatibles.
- Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.
8. Exposure Controls / Personal Protection

Airborne Exposure Limits:
   Monosodium Phosphate: ACGIH: 10 mg/m³ TWA
                         STEL: 16 mg/m³ (China)

Eye Protection:        Wear splash-proof goggles and/or face shield.

Skin Protection:       Wear protective clothing including gloves, lab coat, apron or
                        coveralls, as appropriate, to minimize skin contact.

General Industrial Hygiene Practices:
   Wash with soap and water before meals and at the end of each work shift. Good
   manufacturing practices require amounts of any chemical be removed from the skin as soon
   as practical, especially before eating or smoking.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance:</th>
<th>Clear, Pale Yellow</th>
<th>Viscosity: Unknown</th>
<th>Odor: None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor Threshold:</td>
<td>Unknown</td>
<td>Relative Density: 1.2-1.4</td>
<td>pH: 12.5-13.5</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>N/A</td>
<td>Partition coefficient: n-octanol/water</td>
<td>Freezing Point: 0°C</td>
</tr>
<tr>
<td>Initial Boiling Point:</td>
<td>~100°C</td>
<td>Decomposition Temperature: Unknown</td>
<td>Boiling Range: Unknown</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt;144°F</td>
<td>Vapor Density: Heavier Than Air</td>
<td>Evaporation Rate: Unknown</td>
</tr>
<tr>
<td>Flammability, Solid:</td>
<td>Unknown</td>
<td>Solubility 100%</td>
<td>Flammability, Gas: Unknown</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>1.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Stability: This product is stable under normal handling and storage conditions.

11. Toxicological Information

Sodium Metasilicate: Rat
Oral LD-50: 847 mg/kg

Potassium Hydroxide: Rat
Oral LD-50: 333 mg/kg

12. Ecological Information

Potassium Hydroxide: Pisces Gambusia affinis
LC-50: >28.6 mg/l (96 h) 80 mg/l
TLM: >28.6 mg/l (96 h) 80 ppm (24 h)

13. Disposal Considerations

Waste Disposal: Dispose according to Federal, State and Local regulations.
EPA Hazardous Waste: No

14. Transport Information

US Department of Transportation: Not Regulated

15. Regulatory Information

Inventory Status: All components included on TSCA, DSL, EINECS/ELINCS, AICS, MITI, KECL inventory lists.

Federal Regulations: All functional components of this product are listed on the TSCA inventory.

SARA Title III Hazard Classes:

Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: No
Other Information:

NFPA Ratings

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3 (Severe)</td>
</tr>
<tr>
<td>Fire</td>
<td>0 (Minimal)</td>
</tr>
<tr>
<td>Stability</td>
<td>0 (Minimal)</td>
</tr>
</tbody>
</table>

Protection 4 – Corrosive Liquid

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the best knowledge of Applied Chemistries, Inc. The data on this SDS relates only to the specific
material design herein. Applied Chemistries Inc. assumes no legal responsibility for use or reliance
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SDS contains all the information required by the CPR.