

## 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. Hazards(s) Identification

GHS Classification and Label Elements of the Product

### Hazard Pictograms:



### Signal Word:

**DANGER**

#### Hazard Category

#### Signal Word

#### Hazard Statement

1

Danger

H314:

**Causes severe skin burns and eye  
damage.**

1

Danger

H318:

**Causes serious eye damage.**

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Precautionary Statements	
Prevention	Response
<p>P260: Do not breathe dust/fume/gas/mist/vapours/spray.</p> <p>P264: Wash hands thoroughly after handling.</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection.</p>	<p>P301+ <b>IF SWALLOWED:</b> Rinse mouth. Do <b>NOT</b> induce vomiting.</p> <p>P330+ <b>IF ON SKIN (or hair):</b> Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P331: Wash contaminated clothing before reuse.</p> <p>P303+ <b>IF INHALED:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P361+ <b>IF INHALED:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P340: Immediately call a <b>POISON CENTER</b> or doctor/physician.</p> <p>P310: Immediately call a <b>POISON CENTER</b> or doctor/physician.</p> <p>P305+ <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P351+ <b>IF IN EYES:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P338: Immediately call a <b>POISON CENTER</b> or doctor/physician.</p>
Storage	Disposal
<p>P405: Store locked up.</p>	<p>P501: Dispose of contents/container according to local/regional regulations.</p>

### 3. Composition/Information on Ingredients

**Chemical Characterization:** Mixture

Component Name	CAS #	Concentration % by Weight	GHS Hazard Codes
<i>Sodium Metasilicate</i>	10213-79-3	6-12%	H302, H314, H335
<i>Potassium Hydroxide</i>	1310-58-3	1-5%	H290, H314, H402

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#### 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, Protective Equipment and Emergency Procedures:** Wear proper protective equipment. 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/m<sup>3</sup> TWA  
STEL: 16 mg/m<sup>3</sup> (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

<b>Appearance:</b>	Clear, Pale Yellow	<b>Viscosity:</b>	Unknown	<b>Odor:</b>	None
<b>Odor Threshold:</b>	Unknown	<b>Relative Density:</b>	1.2-1.4	<b>pH:</b>	12.5-13.5
<b>Melting Point:</b>	N/A	<b>Partition coefficient: n- octanol/water</b>	Unknown	<b>Freezing Point:</b>	0°C
<b>Initial Boiling Point:</b>	~100°C	<b>Decomposition Temperature:</b>	Unknown	<b>Boiling Range:</b>	Unknown
<b>Flash Point:</b>	>144°F	<b>Vapor Density:</b>	Heavier Than Air	<b>Evaporation Rate:</b>	Unknown
<b>Flammability, Solid:</b>	Unknown	<b>Solubility</b>	100%	<b>Flammability, Gas:</b>	Unknown
<b>Lower Explosive Limit:</b>	Unknown	<b>Auto-Ignition Temperature:</b>	Unknown	<b>Upper Explosive Limit:</b>	Unknown
<b>Vapor Pressure:</b>	1.0				

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### 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

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



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### NFPA Ratings

#### Other Information:

<b>Health:</b>	3 (Severe)
<b>Fire:</b>	0 (Minimal)
<b>Stability:</b>	0 (Minimal)
Protection 4 – Corrosive Liquid	

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