Rapid Access Film Developer (Ready-To-Use)

Trade Name: Rapid Access Film Developer Ready-To-Use

Item Number(s): FDEVRTU

**Relevant Identified Uses of the Substance or Mixture:**
Ready-To-Use Developer for use with Rapid Access Films.

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

**Manufacturer/Supplier:** Recognition Systems, Inc.
30 Harbor Park Dr.
Pt. Washington, NY 11050
(516)625-5000

- 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)

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**2. Hazards(s) Identification**

GHS Classification and Label Elements of the Product

**Hazard Pictograms:**

[![Hazard Pictogram 1](image1)](image1)

[![Hazard Pictogram 2](image2)](image2)

**Signal Word:**

![WARNING]([image](image3))

![WARNING]([image](image4))

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Signal Word</th>
<th>Hazard Statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Warning</td>
<td>H303: May be harmful if swallowed.</td>
</tr>
<tr>
<td>2B</td>
<td>Warning</td>
<td>H320: Causes eye irritation.</td>
</tr>
<tr>
<td>3</td>
<td>Warning</td>
<td>H316: Causes mild skin irritation.</td>
</tr>
<tr>
<td>3</td>
<td>Warning</td>
<td>H335: May cause respiratory irritation.</td>
</tr>
<tr>
<td>2</td>
<td>Warning</td>
<td>H341: Suspected of causing genetic defects.</td>
</tr>
<tr>
<td>2</td>
<td>Warning</td>
<td>H351: Suspected of causing cancer.</td>
</tr>
<tr>
<td>3</td>
<td>No signal word</td>
<td>H402: Harmful to aquatic life.</td>
</tr>
</tbody>
</table>

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**Precautionary Statements**

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Prevention

- **P201+20**: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- **P261**: Avoid breathing dust/fume/gas/mist/vapours/spray.
- **P264**: Wash hands thoroughly after handling.
- **P270**: Do not eat, drink or smoke while using this product.
- **P271**: Use only in a well-ventilated area.
- **P273**: Harmful to aquatic life.
- **P281**: Wear personal protection as required.

Response

- **P305+P351+P338**: If Skin Irritation Occurs: get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P332+315**: If Skin Irritation Persists: get medical advice/attention.
- **P305**: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **P337+P313**: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage

- **P403+233**: Store in a well-ventilated place. Keep container tightly closed.
- **P405**: Store locked up.

Disposition

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

3. Composition/Information on Ingredients

**Chemical Characterization:** Mixture

<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>Hydroquinone</td>
<td>123-31-9</td>
<td>5-10%</td>
<td>H302, H318, H317, H341, H351, H400</td>
</tr>
<tr>
<td>Sodium Sulfite</td>
<td>7757-83-7</td>
<td>10-20%</td>
<td>H315, H319</td>
</tr>
<tr>
<td>Potassium Carbonate</td>
<td>584-08-7</td>
<td>5-10%</td>
<td>H315, H319, H335, H336</td>
</tr>
<tr>
<td>Potassium Bromide</td>
<td>7758-02-3</td>
<td>&lt;5%</td>
<td>H315, H319, H335, H402, H412</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**Inhalation:**

Prepared 05/01/2015
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 5 minutes.

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

**Ingestion:**
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. Do not induce vomiting.

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### 5. Fire Fighting Measures

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

**Specific Fire Fighting Measures:**
N/A

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

**Special Protective Equipment and Precautions for Fire Fighters:**
No special equipment required.

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### 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.

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### 7. Handling and Storage

**Precautions for Safe Handling:**
- Protect against physical damage.
- Store in a cool, dry, well ventilated location.
- Separate from incompatibles.
- Keep containers tightly closed. Do not store in unlabeled or mislabeled containers.

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### 8. Exposure Controls / Personal Protection

**Airborne Exposure Limits:**
Hydroquinone (123-31-9)

<table>
<thead>
<tr>
<th>Basis</th>
<th>Revision Date</th>
<th>Value</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>n/a</td>
<td>1 mg/m³</td>
<td>ACGIH-TWA</td>
</tr>
<tr>
<td>OSHA</td>
<td>n/a</td>
<td>2 mg/m³</td>
<td>OSHA PEL (TWA)</td>
</tr>
</tbody>
</table>

**Eye Protection:**
Wear safety glasses with side shields or splash-proof goggles.

**Skin Protection:**
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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, Pale Liquid</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Unknown</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Initial Boiling Point</td>
<td>~100°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;144°C</td>
</tr>
<tr>
<td>Flammability, Solid</td>
<td>Unknown</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>Unknown</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt;3 mmHg@20°C</td>
</tr>
<tr>
<td>Relative Density</td>
<td>1.2-1.3</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Unknown</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Unknown</td>
</tr>
<tr>
<td>Odor</td>
<td>Typical</td>
</tr>
<tr>
<td>pH</td>
<td>10.7-11.1</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>0°C</td>
</tr>
<tr>
<td>Boiling Range</td>
<td>Unknown</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Unknown</td>
</tr>
<tr>
<td>Flammability, Gas</td>
<td>Unknown</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>Unknown</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Unknown</td>
</tr>
<tr>
<td>Solubility</td>
<td>100%</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

### 10. Stability and Reactivity

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

### 11. Toxicological Information

**Toxicological Data:** Unknown

### 12. Ecological Information

**Ecological Data:** This material is 100% biodegradable.

### 13. Disposal Considerations

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

### 14. Transport Information
Rapid Access Film Developer (Ready-To-Use)

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:

<table>
<thead>
<tr>
<th>NFPA Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Health:</strong> 2 (Moderate)</td>
</tr>
</tbody>
</table>

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