1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION
Product Name ................. Quicksilver Print Developer
Catalog Number ................. N/A
Chemical Name ................. Mixture
Common Name ................. N/A
Product Use .................. Photographic print developer.

MANUFACTURER
Sprint Systems of Photography, Inc.
1057 Chopmist Hill Road
Scituate, RI 02857
800 356-5073

EMERGENCY TELEPHONE NUMBER
ChemTel (1-800-255-3924)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NUMBER</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Hydroquinone</td>
<td>123-31-9</td>
<td>2 mg/m³</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Potassium carbonate</td>
<td>584-08-7</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Sodium sulfite</td>
<td>7757-83-7</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

See Section 15 for OSHA Regulatory Status

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Light brown liquid with a mild, sweet odor. respiratory tract. Contact may cause sensitization.

Danger! Causes eye and skin burns. May cause life Will not burn. In case of fire use extinguishing media
threatening asthma. May cause irritation to the suitable for the material that is burning.

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Inhalation (breathing), eye and skin contact.

Ingestion: Swallowing can cause gastrointestinal pain, cramps, nausea, vomiting, or central nervous system depression, and may cause kidney or liver damage; can cause life threatening asthma.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Pre-existing skin disorders, eye problems, or impaired liver and kidney. Persons sensitized to sodium sulfite are at risk.

REPORTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

✓ Not Applicable
- OSHA Suspect Carcinogen
- National Toxicology Program (NTP)
- International Agency for Research on Cancer (IARC)
4.  **FIRST AID MEASURES**

**Skin contact:** Wash affected areas with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

**Inhalation:** Remove from area to fresh air. If not breathing, clear airway and start mouth-to-mouth artificial respiration or use a bag-mask respirator. Get immediate medical attention. If victim is having trouble breathing, transport to medical care and, if available, give supplemental oxygen.

**Eye contact:** Immediately rinse eyes with water. Remove any contact lenses. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Continue flushing eyes with large amounts of running water for at least 15 minutes. If physician is not available, flush for an additional 15 minutes. Get immediate medical attention

**Ingestion:** Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

**NOTE TO PHYSICIAN**

None known.

5. **FIRE FIGHTING MEASURES**

Flash Point and Method ............... > 200°F (PMCC)

**GENERAL HAZARD**

Fire or excessive heat may produce hazardous decomposition products.

**EXTINGUISHING MEDIA**

In case of fire use extinguishing media suitable for the material that is burning.

**SPECIAL FIREFIGHTING INSTRUCTIONS**

None known.

**FIREFIGHTING EQUIPMENT**

As in any fire, wear NIOSH approved, positive-pressure self-contained breathing apparatus and full protective gear.

6. **ACCIDENTAL RELEASE MEASURES**

Wear appropriate protective equipment (See Section 8). Do not get in eyes, on skin, or on clothing. Ventilate area of leak or spill. Absorb with kitty litter, sand, or earth and package in a suitable container for disposal.

7. **HANDLING AND STORAGE**

**HANDLING**

Wear appropriate protective equipment (See Section 8). Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**STORAGE**

Keep in tightly closed container, stored in a cool, dry, ventilated area.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS**

Use engineering controls to reduce air contamination to permissible exposure level.

**PERSONAL PROTECTION**

**Respirator:** In conditions where high concentrations of vapors are present or exposure limits are exceeded, wear a respirator that has been selected by technically qualified person for the specific work conditions.

**Eye Protection:** Wear approved safety goggles.

**Gloves:** Rubber (butyl, Neoprene).

**Clothing:** Wear long-sleeved clothing. Use rubber apron. Use rubber boots.

**Other:** Eye wash; safety shower.
PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Light brown</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild, sweet</td>
</tr>
<tr>
<td>Melting Point °F</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point °F</td>
<td>&gt; 212°F</td>
</tr>
<tr>
<td>Specific Gravity @ 68 °F</td>
<td>1.315</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>0.6</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>pH</td>
<td>10.68</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Soluble</td>
</tr>
<tr>
<td>Solubility in other liquids</td>
<td>N/E</td>
</tr>
</tbody>
</table>

STABILITY AND REACTIVITY

REACTIVITY

Stable under normal use conditions. Will decompose in acid solutions, liberating toxic and irritating sulfur dioxide gas.

HAZARDOUS DECOMPOSITION PRODUCTS

CO₂, CO, and oxides of sulfur

INCOMPATIBILITIES

Acidic materials, strong oxidizers, metals and organic materials.

CONDITIONS TO AVOID

Excessive heat, acids.

TOXICOLOGICAL INFORMATION

The product is corrosive to abraded skin in a modified FHSA/CPSC Design, 16 CFR 1500 test procedure. It is not corrosive to intact skin.

For Diethylene glycol:

Oral LD₅₀ (rat): 12,565 mg/kg
Oral LD₅₀ (mouse): 23,700 mg/kg
Dermal LD₅₀ (rabbit): 11,890 mg/kg

For Hydroquinone:

Oral LD₅₀ (rat): 320 mg/kg
Oral LD₅₀ (mouse): 245 mg/kg

For Sodium sulfite:

Oral LD₅₀ Mouse: 820 mg/kg

For Potassium carbonate:

Oral LD₅₀ (rat): 1,870 mg/kg
Oral LD₅₀ (mouse): 2,570 mg/kg

ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

For Diethylene glycol:

96 hr LC₅₀ (fathead minnow): >100 mg/L. Cond: Static.
96 hr LC₅₀ (water flea): 0.3-1.0 mg/L. Cond: Static.
15min EC₅₀ (Photobacterium phosphoreum): 228 mg/L. Microtox test.

ENVIRONMENTAL MOVEMENT AND PARTITIONING

Not known.

For Hydroquinone:

96 hr LC₅₀ (rainbow trout): 0.097 mg/L.
96 hr LC₅₀ (fathead minnow): 0.1-0.18 mg/L.
48 hr EC₅₀ (water flea): 0.05 mg/L.
30 min EC₅₀ (Photobacterium phosphoreum): 0.0382 mg/L. Microtox test.

ENVIRONMENTAL FATE

Not known.

DISPOSAL CONSIDERATIONS

RCRA Waste Code: Not regulated.
TRANSPORT INFORMATION

DOT Hazard Class ........ Not Regulated

REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

✓ Hazardous  _ Non-Hazardous

CERCLA/SUPERFUND (40 CFR 117, 302)

Hydroquinone; RQ 100 lbs.

SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

Hydroquinone TPQ 500 lbs.

INVENTORY STATUS

All ingredients of this product are on the TSCA inventory.

SARA HAZARD CATEGORIES (40 CFR 370)

✓ Acute  ✓ Chronic  _ Fire

_ Pressure  _ Reactive  _ None

SARA TOXIC CHEMICALS (40 CFR 372)

Hydroquinone <5%.

TSCA CHEMICAL SPECIFIC RULES

None known.

STATE REGULATIONS

Florida Hazardous Substance List .... Hydroquinone
Massachusetts Right To Know List .... Hydroquinone
Minnesota Hazardous Substance List . Diethylene glycol and
hydroquinone
New Jersey Right To Know List .... Hydroquinone
Rhode Island Hazardous Substance List Hydroquinone,
Diethylene glycol

OTHER INFORMATION

NFPA RATING

Health  3
Fire  1
Reactivity  0

ABBREVIATIONS

C - Ceiling limit
ERG - Emergency Response Guidebook
N/A - Not applicable
N/D - Not determined
N/E - Not established
N/K - Not known
RQ - Reportable Quantity
TPQ - Threshold Planning Quantity

PREPARATION INFORMATION

Prepared by: .. Sprint Systems of Photography, Inc.
Date Prepared: . May 10, 2003

REVISION INFORMATION

Section 11 was updated to reflect results of a irritation study.
Section 14 was revised to take into account skin corrosion test results.