

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.
100 Dexter Street
Pawtucket, R.I. 02860
800 356-5073

EMERGENCY TELEPHONE NUMBER

ChemTel (1-800-255-3924)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	EXPOSURE CONTROLS	
		OSHA PEL	ACGIH TLV
Diethylene glycol	111-46-6	N/E	N/E
Hydroquinone	123-31-9	2 mg/m ³	2 mg/m ³
Potassium carbonate	584-08-7	N/E	N/E
Sodium sulfite	7757-83-7	N/E	N/E
Water	7732-18-5	N/E	N/E

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 threatening asthma. May cause irritation to the	Will not burn. In case of fire use extinguishing media suitable for the material that is burning.

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Inhalation (breathing), eye and skin contact.

SYMPTOMS OF EXPOSURE

Skin Contact: Causes burns to abraded skin. Contact may cause depigmentation or sensitization.

Inhalation: Breathing vapors or mist may irritate the mucous membranes of the nose, throat, respiratory tract, and may cause headache, light-headedness, dizziness, and nausea.

Eye Contact: Causes eye burns.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

State	Liquid	Vapor Density (Air = 1)	0.6
Color	Light brown	Vapor Pressure (mm Hg)	N/A
Odor	Mild, sweet	pH	10.68
Melting Point °F	N/A	Water Solubility	Soluble
Boiling Point °F	> 212	Solubility in other liquids	N/E
Specific Gravity @ 68 °F	1.315		

10. 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.

11. 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

12. 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.

13. DISPOSAL CONSIDERATIONS

RCRA Waste Code: Not regulated.

DOT Hazard Class Not Regulated

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

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
Replaces: . . . June 21, 2000

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.