

**1. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT IDENTIFICATION**

Product Name . . . . . Archive Fixer Remover  
 Catalog Number . . . . . N/A  
 Chemical Name . . . . . Mixture  
 Common Name . . . . . N/A  
 Product Use . . . . . Remove photographic fixer.

**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
Ethylene glycol	107-21-1	N/E	100 mg/m <sup>3</sup> (aerosol)
Potassium salts of diethylenetriamine-pentaacetic acid	Mixture	N/E	N/E
Sodium metabisulfite	7681-57-4	N/E	5 mg/m <sup>3</sup>
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**

Blue to moss green solution with a slight sulfur dioxide odor.	absorbed through skin. May cause life threatening asthma.
Warning! May cause skin sensitization. May cause mild irritation to skin, eyes, and the respiratory tract. May be	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

embryo or cause teratogenic effects. Can cause life-threatening asthma.

**SYMPTOMS OF EXPOSURE**

**Skin Contact:** May cause mild irritation. May be absorbed through skin and cause symptoms like those for ingestion of ethylene glycol. May cause skin sensitization.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

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

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

**REPORTED AS CARCINOGEN OR POTENTIAL CARCINOGEN**

- Not Applicable
- OSHA Suspect Carcinogen
- National Toxicology Program (NTP)
- International Agency for Research on Cancer (IARC)

**Eye Contact:** May cause mild irritation.

**Ingestion:** Can cause kidney damage, and may be toxic to the

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**4.****FIRST AID MEASURES**

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**Skin contact:** Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops and persists.

**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:** Rinse eyes with water. Remove any contact lenses, and continue flushing with plenty of water for several minutes. Seek medical attention if irritation develops and

persists.

**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.

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**5.****FIRE FIGHTING MEASURES**

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Flash Point and Method . . . . . > 200 °F

**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.

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**6.****ACCIDENTAL RELEASE MEASURES**

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Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin, or clothing. Ventilate area of leak or

spill. Absorb with kitty litter, sand or earth and package in a suitable container for disposal.

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**7.****HANDLING AND STORAGE**

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**HANDLING**

Wear appropriate protective equipment (See Section 8). Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

**STORAGE**

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

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**8.****EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS**

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

**PERSONAL PROTECTION**

**Respirator:** In conditions where high concentrations of vapors or mist 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 glasses.

**Gloves:** Butyl rubber.

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

**Other:** Eye wash; safety shower.

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**9.****PHYSICAL AND CHEMICAL PROPERTIES**

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State . . . . . Liquid  
Color . . . . . Blue to moss green  
Odor . . . . . Sulfur dioxide

Melting Point °F . . . . . N/A  
Boiling Point °F . . . . . > 212  
Specific Gravity @ 25 °F . . . . . 1.29

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Vapor Density (Air = 1) ..... N/A  
Vapor Pressure (mm Hg) ..... N/A  
pH ..... 7.9

Water Solubility ..... Soluble  
Solubility in other liquids ..... N/A

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**10. STABILITY AND REACTIVITY**

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**REACTIVITY**

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

**INCOMPATIBILITIES**

Acidic materials, strong oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS**

CO<sub>2</sub>, CO, and oxides of sulfur.

**CONDITIONS TO AVOID**

Excessive heat, acids.

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**11. TOXICOLOGICAL INFORMATION**

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The product is not an irritant. The primary dermal irritation score was 0.3 following a 4-hour occluded dermal exposure in a modified FHSA/CPSC Design, 16 CFR 1500.

**For Sodium sulfite:**

Oral DC<sub>50</sub> (rat): 820 mg/kg

**For Ethylene glycol:**

Inhalation LC<sub>50</sub> (rat): 10,876 mg/kg  
Oral LD<sub>50</sub> (rat): 4,700 mg/kg  
Oral LC<sub>50</sub> (mouse): 5,500 mg/kg  
Dermal LC<sub>50</sub> (rabbit): 9,530 µL/kg

Swallowing can cause nausea, vomiting, abdominal pain and weakness, as well as drunkenness, dizziness, stupor, convulsions and coma. Death could result from respiratory arrest or cardiovascular collapse. Kidney damage may result.

Animal studies indicate that repeated ingestion can cause formation of bladder and kidney stones, as well as kidney damage.

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**12. ECOLOGICAL INFORMATION**

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**ECOTOXICOLOGICAL INFORMATION**

**For Ethylene glycol:**

96 hr LC<sub>50</sub> (rainbow trout): 41,000 mg/L. Cond: 20 °C.  
96 hr LC<sub>50</sub> (bluegill): 27,500 - 41,000 mg/L.  
96 hr LC<sub>50</sub> (goldfish): 27,500 - 41,000 mg/L  
48 hr LC<sub>50</sub> (water flea): 46,300 mg/L  
30 min EC<sub>50</sub> (Photobacterium phosphoreum): 620.0 mg/L Microtox test.

**ENVIRONMENTAL MOVEMENT AND PARTITIONING**

Not known

**ENVIRONMENTAL FATE**

Not known.

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**13. DISPOSAL CONSIDERATIONS**

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RCRA Waste Code: ..... Not regulated.

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**14. TRANSPORT INFORMATION**

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Not regulated by DOT, ICAO, or IMDG.

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**15.****REGULATORY INFORMATION**

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**OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)**

Hazardous                     Non-Hazardous

**CERCLA/SUPERFUND (40 CFR 117, 302)**

N/A

**SARA TOXIC CHEMICALS (40 CFR 372)**

Ethylene glycol (2-9%)

**TSCA CHEMICAL SPECIFIC RULES**

None known.

**STATE REGULATIONS**

California Proposition 65 . . . . . Warning! This product contains formaldehyde a chemical known to the State of California to cause cancer.

Florida Hazardous Substance List Sodium metabisulfite, and ethylene glycol.

**SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)**

N/A

**SARA HAZARD CATEGORIES (40 CFR 370)**

Acute                     Chronic                     Fire  
 Pressure                     Reactive                     None

**INVENTORY STATUS**

All ingredients of this product are on the TSCA inventory.

Massachusetts Right To Know List . . . . . Formaldehyde, sodium metabisulfite, and ethylene glycol  
Minnesota Hazardous Substance List . . . . . Sodium metabisulfite, and ethylene glycol  
New Jersey Right To Know List . . . . . Sodium metabisulfite, and ethylene glycol  
Rhode Island Hazardous Substance List: Sodium metabisulfite, and ethylene glycol

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**16.****OTHER INFORMATION**

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**NFPA RATING**

Health            2  
Fire                1  
Reactivity       0

**ABBREVIATIONS**

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

**PREPARATION INFORMATION**

Prepared by:    Sprint Systems of Photography, Inc.  
Date Prepared:   April 19, 2000  
Replaces:        November 19, 1999

**REVISION INFORMATION**

Sections 3, 4, 6, 7, 8, 11, 14 and 16 were updated to reflect results of a dermal irritation study.