

FREESTYLE PHOTOGRAPHIC SUPPLIES

KENTMERE PROFESSIONAL

K-110 LIQUID FILM DEVELOPER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.

Product Name: **K-110 LIQUID FILM DEVELOPER**

Product Number: **10190**

Date Prepared: 05/01/2007

Customer Information Phone Number:

1-800-521-4042

CHEMTREC®: 24 Hour Emergency Transport Phone Number: **1-800-424-9300**

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS | OHSA PEL | ACGIH TLV | Weight % |
|-------------------|------------|----------------------------|----------------------------|----------|
| POTASSIUM SULFITE | 10117-38-1 | N.E. | N.E. | 10-20 |
| HYDROQUINONE | 123-31-9 | 2mg/m ³ | 2mg/m ³ | 5-10 |
| DIETHYLENE GLYCOL | 111-46-6 | 10mg/m ³ (WEEL) | 10mg/m ³ (WEEL) | 5-10 |
| SODIUM BORATE | 1303-96-4 | N.E | 5mg/m ³ | 1-5 |

3. HAZARDOUS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Eye Contact: May cause irritation.

Inhalation: May cause irritation to respiratory tract.

Ingestion: Harmful if swallowed. May cause burns to the gastrointestinal tract. Can cause CNS effects and may cause kidney damage, liver damage, or blood disorders based upon animal data.

Skin Contact: May cause irritation or allergic reaction.

Signs And Symptoms Of Exposure: Eye irritation, respiratory irritation, dermatitis, difficulty breathing, abdominal pain, skin irritation, mucus membrane irritation, coughing, nausea, diarrhea.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention if symptoms occur.

Inhalation: If symptomatic, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Ingestion: If swallowed, give victim a glass of water or milk. DO NOT induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Skin Contact: Flush skin with plenty of water and wash with a non-alkaline skin cleaner. Wash contaminated clothes before reuse. Get medical attention if irritation develops.

Aggravated Medical Conditions: Individuals who are under the care of a physician or have chronic ailments, should consult a physician before using this product.

Supplemental Health Information: None of the components in this product is listed by IARC, NTP, or OSHA as carcinogen.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point: Noncombustible liquid

Extinguishing Media: Water spray, carbon dioxide, dry chemical, alcohol foam.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to keep containers cool.

Unusual Fire And Explosion Hazards: Fire or excessive heat may cause production of hazardous decomposition products.

Decomposition Products: Concentrate: Carbon dioxide, carbon monoxide, oxides of sulfur.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Spilled Or Released: Review fire and explosion hazards and safety precautions before proceeding with cleanup. Use appropriate personal protective equipment. Avoid contact with skin and eyes. Stop the spillage. Dike the spill. Prevent liquid from entering sewers, waterways or low areas. Absorb spillage in inert material. Soak up with sawdust, sand, or other absorbent material. Remove non-usable solid material and/or contaminated soil for disposal in an approved and permitted landfill. Discharge to sewer requires approval of permitting authority. Contaminated surfaces should be cleaned using water.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Avoid prolonged breathing of vapor or mist. Avoid contact with eyes, skin, and clothing. Store in a cool, dry, well-ventilated area. Keep containers closed. Do not store with incompatible materials. Do not store or consume food, drink, or tobacco where they may become contaminated with this material.

Other Precautions: All labeled precautions must be observed when handling, storing and transporting empty containers due to product residues. Triple rinse before disposal.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use of respiratory protection is generally not required. Avoid breathing mist or vapor. Wear OSHA approved respirator if TLV is to be exceeded. Respirator type: Organic vapor.

Ventilation: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Good ventilation of 10 room volumes per hour. Ventilation rates should match conditions of use.

Protective Gloves: Latex, rubber, or neoprene waterproof gloves are recommended.

Eye Protection: Wear safety glasses with side shield or goggles.

Other Protective Clothing or Equipment: Rubber or plastic apron.

Work/Hygienic Practices: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Guidelines: See Section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Concentrate:

Appearance And Odor: Pale yellow color, no odor.

Solubility In Water: Complete

MATERIAL SAFETY DATA SHEET



| | | |
|--|-------------------------|------------------------|
| Boiling Point: > 100°C | Vapor Pressure: N.E. | Specific Gravity: 1.28 |
| Melting Point: N.E. | Freezing Point: N.E. | Evaporation Rate: N.E. |
| Vapor Density: N.E. | Percent Volatile: 53.3 | Ph: 10.0 |
| Molecular Weight: N.E. | Pounds per Gallon 10.72 | |
| V.O.C. is 133.7 g/L or 10.4% or 1.11 lb. /gal. | | |

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: None

Incompatibility: Strong Acids, strong oxidizing agents, excessive heat.

Hazardous Decomposition Or By Products: May produce carbon dioxide, carbon monoxide, and oxides of sulfur.

Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Discharge, treatment or disposal may be subject to Federal, State (provincial in Canada) or local laws. Consult state or local regulatory authorities before flushing to sewer with large amounts of water.

14. TRANSPORT INFORMATION

DOT Class: NOT REGULATED

Hazard Class: NONE

UN No.: Not applicable

Packing Group:

Guide No:

Ship Name:

15. REGULATORY INFORMATION

TSCA: All ingredients in this finished product are listed on the EPA TSCA INVENTORY.

SARA TITLE III: Hydroquinone is listed under Sara Title III Section 313.

CALIF. PROP. 65: Product contains a mixture which includes trace amounts of Trisodium NTA and Ethylene Glycol Monomethyl Ether. The State of California's Safe Drinking Water and Toxic Enforcement Act of 1986, or Proposition 65 requires the following information. This regulation does not address de minimus levels; therefore, even trace amounts of the chemicals included on Proposition 65's list of chemicals known to the State of California to cause cancer or reproductive toxicity must be noted with the "Safe Harbor" wording. WARNING: This product contains Trisodium NTA and Ethylene Glycol Monomethyl Ether – known to the State of California to cause cancer, birth defects or other reproductive harm.

CARCINOGENICITY: NONE OF THE COMPONENTS IN THIS CHEMICAL IS ABOVE THE MINIMUM AMOUNT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

SCAQMD Rule 443.1

Photochemically Reactive: No

Maximum Grams of VOC per Liter: 133.7 gm/L

Vapor Pressure: N.E. mmHg@ 20 °C

16. OTHER INFORMATION (HMIS)

Health: 2

Flammability: 1

Reactivity: 0

Protective: C

OTHER ADDITIONAL INFORMATION: The information and recommendations contained herein are based on data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.