



FREESTYLE PHOTOGRAPHIC SUPPLIES

KENTMERE PROFESSIONAL

LIQUID FIXER SOLUTION

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc.

Product Number: **10198**

Customer Information Phone Number:

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

Product Name: **LIQUID FIXER SOLUTION**

Date Prepared: 05/01/2007

1-800-521-4042

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS</u>	<u>OHSA PEL</u>	<u>ACGIH TLV</u>	<u>Weight %</u>
AMMONIUM THIOSULFATE	7783-18-8	N.E.	N.E.	25-35
SODIUM SULFITE	7757-83-7	N.E.	5 mg/m ³	1-5
BORIC ACID	10043-35-3	15 mg/m ³	10mg/m ³	1-3
ACETIC ACID	64-19-7	25mg/m ³	25 mg/m ³	1-3
ALUMINUM SULPHATE	10043-01-3	N.E.	N.E.	1-3

3. HAZARDOUS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Eye Contact: Causes irritation.

Inhalation: Expected to be a low hazard for recommended handling. May cause irritation mucous membranes and to upper respiratory tract. Some asthmatics or those with sulfite sensitivities may experience difficulty breathing.

Ingestion: May cause irritation to gastrointestinal tract. Some asthmatics or sulfite-sensitive persons may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

Skin Contact: May cause irritation or reddening. May be absorbed through the skin.

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.

Inhalation: Remove to fresh air. If symptoms occur, get medical attention immediately.

Ingestion: If swallowed, give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Skin Contact: Immediately wash skin with plenty of soap. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

Aggravated Medical Conditions: Asthmatics or hypersensitive individuals may experience difficult breathing.

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: Nonflammable Flash Point Method: Not applicable Auto-ignition: Not applicable

LEL: Not applicable UEL: Not applicable

Extinguishing Media: Any applicable to the primary cause of the fire. Flood with water.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire And Explosion Hazards: Dried product residue can act as a reducing agent. Reacts violently with oxidizing materials. May cause spontaneous heating and ignition when absorbed on combustible, porous materials.

Combustion Products: Carbon dioxide, carbon monoxide, oxides of sulfur and nitrogen.

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 during cleanup. For small amount less than one gallon flush to sewer with large amounts of water. For larger spills, dike the spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry, or other absorbent material. Absorb spillage in inert material. Remove non-usable solid material and/or contaminated soil for disposal. Discharge to sewer may require approval of local authorities. Contaminated surfaces may be cleaned using water.

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Avoid breathing mist or vapor in concentrations greater than the exposure limits. Store in a cool, dry, well ventilated area. Keep containers closed. Do not store with incompatible materials such as oxidizing 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. Do not reuse containers. Triple rinse before disposal.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: When this product is used in the intended way, no respiratory protection is anticipated to be necessary. If exposure limits are exceeded an approved respirator must be worn. Respirator type: full-face organic vapor cartridge.

Ventilation: Avoid breathing vapors or mist. Local exhaust ventilation is recommended. Ventilation must be adequate to keep hazardous ingredients below their exposure limits.

Protective Gloves: Impervious gloves and aprons recommended.

Eye Protection: Chemical safety glasses with side shields (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

Appearance And Odor: Clear slightly yellow liquid with ammonia odor.

Solubility In Water: Complete

Boiling Point: >100° C Vapor Pressure: 18mm Hg @ 20° C

Ph: 5.0 Specific Gravity: 1.23 g/ml Melting Point: Not applicable

Freezing Point: N.E. Evaporation Rate: N.E. Vapor Density: 0.6

Percent Volatile: 60.94 Molecular Weight: Not applicable Pounds Per Gallon: 10.2

V.O.C. is 28.2 g/L or 2.3 % or 0.23 lb. /gal.

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Strong acids and alkali.

Incompatibility: Acids, strong bases, sodium hypochlorite (bleach), halogenated compounds, Oxidizing agents. Contact with strong acids will liberate sulfur dioxide. Strong bases of sodium hydroxide will liberate ammonia fumes and flammable material. Contact with sodium hypochlorite (bleach) will form chloramines (toxic gas).

Hazardous Decomposition Or By Products: Sulfur dioxide, ammonia, and chloramines.

Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION**12. ECOLOGICAL INFORMATION****13. DISPOSAL CONSIDERATIONS**

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

14. TRANSPORT INFORMATION

DOT Class: NOT REGULATED

Hazard Class: NONE

UN No: NA

Packing Group:

Guide No:

15. REGULATORY INFORMATION

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

SARA TITLE III: NONE

CALIF. PROP. 65: NONE

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

SCAQMD Rule 443.1

Photochemically Reactive: No

Maximum Grams of VOC per Liter: 28.2 gm/L

Vapor Pressure: 18 mm Hg@ 20 Degrees C

16. OTHER INFORMATION (HMIS)

Health: 1
Flammability: 1
Reactivity: 0
Protective: C

OTHER ADDITIONAL INFORMATION: The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for the injuries from the use of the product described herein.