

FUTURE 500 FIXER POWDER WITH HARDENER

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: Photo Systems, Inc. Product Name: **FUTURE 500 FIXER**
 Product Number: **731731P, 731712Q** Date Prepared: 08/09/2007
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 %
SODIUM THIOSULFATE	7772-98-7	N.E.	N.E.	70-80
SODIUM METABISULFITE	7681-57-4	N.E.	5 mg/m ³	5-10
AMMONIUM ALUMINUM SULFATE	7784-25-0	N.E.	2mg/m ³ (AL)	1-5
* Sulfur dioxide		2 ppm TWA	5 ppm STEL	

3. HAZARDOUS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Eye Contact: Dust exposure may cause irritation to eyes.

Inhalation: Dust may cause irritation to nasal mucous membranes and respiratory tract. In contact with strong acids or if heated, sulfites may liberate sulfur dioxide gas. Sulfur dioxide gas is irritating to the respiratory tract. Some asthmatics or hypersensitive individuals may experience difficult breathing.

Ingestion: Harmful. May cause irritation or corrosion to digestive tract.

Skin Contact: Expected to be a low hazard for usual industrial or commercial handling by trained personnel. Irritating to the skin. Some sulfite sensitive individuals may experience an allergic reaction.

Signs And Symptoms Of Exposure: Some asthmatics or sulfite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, weakness, and diarrhea. Other signs of exposure are: eye irritation, respiratory irritation, dermatitis, difficulty breathing, abdominal pain, skin irritation, mucus membrane irritation, and coughing.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Get immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT induce vomiting. Give large quantities (2-3 glass) of milk or water. Call a physician or poison control center.

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. Some asthmatics or sulfite-sensitive

persons may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness, and diarrhea. Allergies, chronic asthmas may be exacerbated by dust from 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: Not applicable, combustible solid. Flash Point Method: Not applicable
Auto ignition: Not applicable LEL: Not applicable UEL: Not applicable
Extinguishing Media: Use agent appropriate for surrounding fire. Flood with water.
Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire or excessive heat may produce hazardous decomposition products.
Unusual Fire And Explosion Hazards: Powdered materials may form explosive air-dust mixtures. Reducing agent. Greatly increases the burning rate of combustible materials.
Combustion Products: Carbon dioxide, carbon monoxide, and 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. If dry, sweep up chemical and place in a hazardous waste container. Avoid generating dust. If mixed, dike the spill. Neutralize to a pH between 6-8 with soda ash or lime before disposal. 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 and may require pre-treatment. Contaminated surfaces should be cleaned using water. (Small spills of less than one gallon of liquid or five pounds of solid can be flushed to the sewer with large amounts of water if permitted.)

7. HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storage: Avoid breathing dust. 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. Do not reuse containers. Triple rinse before disposal. Dispose of in a licensed facility. Recommended crushing or other means to prevent re-use.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Wear OSHA approved dust filter respirator if TLV is to be exceeded. A respirator should be worn if hazardous decomposition products are likely to be or have been released. Respirator type: Acid gas.

Ventilation: 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: Chemical safety goggles/splash shield.

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: Crystalline white powder with faint vinegar odor.

Solubility In Water: Complete Boiling Point: Not applicable Vapor Pressure: Not applicable

Specific Gravity: Not applicable Melting Point: Not applicable Freezing Point: Not applicable

Evaporation Rate: Not applicable Vapor Density: Not applicable Percent Volatile: Not applicable

Ph: N/A (5.75 mixed) Molecular Weight: Not applicable

Pounds Per Gallon: Not applicable

10. STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Damp and humid conditions.

Incompatibility: Strong acids and oxidizers.

Hazardous Decomposition Or By Products: May produce carbon dioxide, carbon monoxide and oxide of sulfur under thermal conditions. Hazardous sulfur dioxide is evolved under acid conditions of $\text{pH} < 4$, as well as hydrogen sulfide gas and sodium sulfide residue.

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.

14. TRANSPORT INFORMATION

Ship Name: NOT REGULATED

Hazard Class: NONE

UN No.: NOT APPLICABLE

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.

16. OTHER INFORMATION (HMIS)

Health: 1

Flammability: 1

Reactivity: 1

Protective: B

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 injuries from the use of the product described herein.