

MATERIAL SAFETY DATA SHEET

AGFA CORPORATION
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TRANSPORTATION EMERGENCY
CALL CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

NON-TRANSPORTATION
HEALTH EMERGENCY PHONE..: (303) 623-5716
AGFA INFORMATION PHONE..: (201) 440-2500

1. CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT NAME.....: Chempact Fixer
PRODUCT CODE.....: LJBA6000
CHEMICAL FAMILY.....: Aqueous Photochemical Solution
BUSINESS GROUP.....: Technical Imaging Systems
AGFA MSDS NUMBER....: 716t.000

2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME /CAS NUMBER	EXPOSURE LIMITS	CONCENTRATION (%)
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***** HAZARDOUS INGREDIENTS *****

Ammonium Thiosulfate 7783-18-8	OSHA PEL : Not Established ACGIH TLV: Not Established	60-80 %
Sodium Metabisulfite 7681-57-4	OSHA PEL : Not Established ACGIH TLV: 5.0 mg/m3 TWA	5-10 %
Sodium Thiosulfate 7772-98-7	OSHA PEL : Not Established ACGIH TLV: Not Established	5-10 %
Citric Acid 77-92-9	OSHA PEL : Not Established ACGIH TLV: Not Established	1-5 %
Sodium Sulfite 7757-83-7	OSHA PEL : Not Established ACGIH TLV: Not Established	3-7 %

3. HAZARDS IDENTIFICATION:

This product as a whole has not been tested. This hazard information is for the individual ingredients.

* EMERGENCY OVERVIEW *
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* WARNING! Color: Yellowish; Form: Powder; Odor: Odorless; *
* May cause eye, skin, and respiratory tract irritation; May *
* cause allergic respiratory reaction; May cause allergic skin *
* reaction; Irritating gases/fumes may be given off during *
* burning or thermal decomposition. *

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Eye and skin contact, inhalation of vapors or mists, accidental ingestion.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

This product as a whole has not been tested. This hazard information is for the individual ingredients.

ACUTE INHALATION.....: Ammonium thiosulfate, sodium metabisulfite, sodium thiosulfate, citric acid and sodium sulfite may be irritating to the respiratory tract with symptoms of coughing, sore throat, and runny nose. Sodium metabisulfite and sodium sulfite may cause an allergic reaction in some asthmatics and sulfite sensitive individuals. Possible symptoms include bronchoconstriction, sweating, flushing, hives, rapid heart rate, decreased blood pressure, and anaphylaxis.

CHRONIC INHALATION.....: Persons sensitized to sulfites may have an allergic reaction to the sodium metabisulfite in this product.

ACUTE SKIN CONTACT.....: Ammonium thiosulfate, sodium metabisulfite, sodium thiosulfate, citric acid and sodium sulfite may be irritating to the skin with symptoms of reddening, itching, and swelling. Sodium metabisulfite and sodium sulfite may cause skin sensitization with symptoms of rash, itching, hives, and swelling.

CHRONIC SKIN CONTACT.....: Allergic reaction in individuals previously sensitized to sulfites may occur.

ACUTE EYE CONTACT.....: Ammonium thiosulfate, sodium metabisulfite, sodium thiosulfate, and sodium sulfite may be irritating to the eyes with symptoms of tearing, stinging, reddening, and swelling. Citric acid is severely irritating to the eyes resulting in reddening, swelling of the eye and surrounding tissue, and burning.

ACUTE INGESTION.....: Ingestion of this product may cause nausea and vomiting.

CARCINOGENICITY.....: The components of this product are not listed by NTP, IARC or regulated as a carcinogen by OSHA.

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE.....: Persons with preexisting eye, skin or respiratory tract disorders may be more susceptible to the effects of this product.

4. FIRST AID MEASURES:

FIRST AID FOR EYES.....: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

FIRST AID FOR SKIN.....: Flush affected areas promptly with water and soap for 15 minutes. Remove contaminated clothing. In case of continued irritation consult physician.

FIRST AID FOR INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

FIRST AID FOR INGESTION.: If swallowed, rinse mouth with plenty of water, call a physician.

5. FIRE FIGHTING MEASURES:

FLASH POINT.....: Greater than 200 F (93 C)

EXTINGUISHING MEDIA.....: Carbon Dioxide; Dry Chemical; Foam; Water spray for large fires.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

UNUSUAL FIRE / EXPLOSION HAZARDS: When heated to decomposition emission of toxic fumes of SO₂ is possible.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES.....: Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Spills should be taken up mechanically and placed into labelled, closable containers. Avoid generation of dust. Spill area can be washed with water. Collect wash water for approved disposal. For disposal see section 13.

7. HANDLING AND STORAGE:

STORAGE TEMPERATURE(MIN/MAX): Store between 40 F (4.4 C) and 80 F (26 C).

Preferred storage is at 68 F (20 C).

SHELF LIFE.....: N.A.

SPECIAL SENSITIVITY.....: None known.

HANDLING/STORAGE PRECAUTIONS: Avoid eye and skin contact, and store in well ventilated area. Keep container tightly closed. Do not store with incompatible materials. Do not store or consume food, drink or tobacco in area where they may become contaminated with this material. For incompatibles see section 10.

OTHER NOTES.....: Keep out of the reach of children.

8. PERSONAL PROTECTION:

PROTECTIVE CLOTHING REQUIREMENTS...: Splash protection required for eyes, e.g., eye glasses with side shields or goggles. For skin protection use chemical resistant gloves and aprons, e.g. made of neoprene, rubber or vinyl.

VENTILATION REQUIREMENTS.....: Use sufficient general room ventilation and/or local exhaust to maintain airborne levels of vapors below applicable exposure limits (see Section 2).

RESPIRATOR REQUIREMENTS.....: Under normal conditions of use, respirator protection is not required. If respirators are used, institute a program in accordance with OSHA standard 29CFR1010.134.

ADDITIONAL PROTECTIVE MEASURES.....: Emergency showers and eye wash stations should be made available. Educate and train employees in the safe use and handling of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM.....: Powder

COLOR.....: Yellowish

ODOR.....: Odorless

pH: 4.85-4.95

BOILING POINT.....: Not Established

MELTING/FREEZING POINT....: Not Established

SOLUBILITY IN WATER: Soluble

SPECIFIC GRAVITY: 1.08 (10% solution) at 68 F (20 C)

BULK DENSITY.....: Not Applicable

VAPOR PRESSURE: Not Established

10. STABILITY AND REACTIVITY:

STABILITY.....: This is a stable material.

HAZARDOUS POLYMERIZATION...: Will not occur.

INCOMPATIBILITIES.....: Oxidizing and reducing agents.

INSTABILITY CONDITIONS.....: None known.

DECOMPOSITION PRODUCTS.....: In case of fire, oxides of sulfur, CO₂, carbon monoxide, ammonia, and other potentially toxic fumes.

11. TOXICOLOGICAL INFORMATION:

NO ANIMAL TOXICITY INFORMATION AVAILABLE

12. ECOLOGICAL INFORMATION:

NO ECOLOGICAL INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Recover nonusable material and/or contaminated water, and dispose of in an approved and permitted treatment system. Remove nonusable solid material and/or contaminated soil, for disposal in an approved and permitted landfill. Discharge to sewer may require approval of permitting authority and may require pretreatment.

14. TRANSPORTATION INFORMATION:

TECHNICAL SHIPPING NAME.....: Not Applicable
PRODUCT LABEL.....: Chempack Fixer

DOT (DOMESTIC SURFACE)

HAZARD CLASS OR DIVISION: Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

15. REGULATORY INFORMATION:

OSHA STATUS.....: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS.....: On TSCA Inventory

CERCLA REPORTABLE QUANTITY...: None

SARA TITLE III:

SECTION 302 EXTREMELY

HAZARDOUS SUBSTANCES...: None

SECTION 311/312

HAZARD CATEGORIES.....: Immediate Health Hazard

SECTION 313

TOXIC CHEMICALS.....: None

RCRA STATUS.....: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

COMPONENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
Ammonium Thiosulfate 7783-18-8	60-80 %	PA1, PA4, MA, NJ1
Sodium Metabisulfite 7681-57-4	5-10 %	PA1, MA, NJ1
Sodium Acetate 127-09-3	7-15 %	PA3, NJ4
Sodium Thiosulfate 7772-98-7	5-10 %	PA3, NJ4
Citric Acid 77-92-9	1-5 %	PA3, NJ4

COMPONENT NAME /CAS NUMBER	CONCENTRATION	STATE CODE
Sodium Sulfite 7757-83-7	3-7 %	PA3, NJ4
Sodium gluconate 527-07-1	0.5-1.5 %	PA3, NJ4

MA = Massachusetts Hazardous Substance List
 NJ1 = New Jersey Hazardous Substance List
 NJ4 = New Jersey Other - included in 5 predominant ingredients > 1%
 PA1 = Pennsylvania Hazardous Substance List
 PA3 = Pennsylvania Non-hazardous present at 3% or greater.
 PA4 = Pennsylvania Environmental Hazardous Substance List.

16. OTHER INFORMATION:

HMIS RATINGS: Health Flammability Reactivity Personal Prot
 2 0 0 B
 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
 B=Safety Glasses, Gloves

AGFA's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS ratings are provided by AGFA as a customer service.

REASON FOR ISSUE.....: New Product
 PREPARED BY.....: R. Ruppel-Kerr
 APPROVED BY.....: Mike Patrick
 APPROVAL DATE.....: 05/22/2002
 SUPERSEDES DATE.....: None
 MSDS NUMBER.....: 45965

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