

3. HAZARDS IDENTIFICATION (Continued)

* gases/fumes may be given off during burning or thermal *
* decomposition. *

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Eye Contact; Skin Contact; Inhalation;
Ingestion

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE INHALATION.....: Inhalation of ammonium thiosulfate and sodium sulfite may be irritating to the respiratory tract with symptoms of sore throat, coughing, and runny nose. Sulfites 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.
ACUTE SKIN CONTACT.....: Ammonium thiosulfate and sodium sulfite may be irritating to the skin with symptoms of reddening and itching.
CHRONIC SKIN CONTACT.....: Repeated or prolonged contact to sulfites may cause an allergic skin reaction in sensitive individuals.
ACUTE EYE CONTACT.....: Ammonium thiosulfate and sodium sulfite may be irritating to the eyes with symptoms of reddening, tearing, and stinging.
ACUTE INGESTION.....: Ingestion of sodium sulfite and ammonium thiosulfate may cause gastrointestinal irritation.

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.....: In case of contact, remove contaminated clothing, immediately wash skin with plenty of water. Wash clothing before reuse. Call a physician if irritation persists.
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, call a physician.

5. FIRE FIGHTING MEASURES:

FLASH POINT.....: Noncombustible
EXTINGUISHING MEDIA.....: Material is not combustible. Use
extinguishing media suitable for other
combustible materials in the area.
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. Dike Spill. Prevent liquid from entering
sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or
other absorbent material.

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.....: Keep from freezing.
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.
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.
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

8. PERSONAL PROTECTION (Continued)

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.....: Liquid
APPEARANCE.....: Clear
COLOR.....: Colorless
ODOR.....: Slight sulfur dioxide odor
pH: Approx. 5.2
BOILING POINT.....: Approx. 212 F (100 C)
MELTING/FREEZING POINT....: Not Established
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: Approx. 1.31
BULK DENSITY.....: Not Established
% VOLATILE BY WEIGHT.....: Not Established
EVAPORATION RATE: Not Established (Butyl acetate = 1)
VAPOR PRESSURE: Not Established
VAPOR DENSITY: Not Established (Air = 1)

10. STABILITY AND REACTIVITY:

STABILITY.....: This is a stable material.
HAZARDOUS POLYMERIZATION...: Will not occur.
INCOMPATIBILITIES.....: Strong alkali, strong acids, oxidizers
INSTABILITY CONDITIONS.....: None Known
DECOMPOSITION PRODUCTS.....: In case of fire, Oxides of sulfur, CO2, carbon monoxide, and ammonia may be generated due to thermal decomposition.

11. TOXICOLOGICAL INFORMATION:

NO ANIMAL TOXICITY INFORMATION AVAILABLE

12. ECOLOGICAL INFORMATION:

NO ECOLOGICAL INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Recover nonusable free liquid 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.....: Aqueous Photochemical Solution
PRODUCT LABEL.....: Cinerex XF2 Fixer

DOT (DOMESTIC SURFACE)

HAZARD CLASS OR DIVISION: Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

ICAO / IATA (AIR)

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

15. REGULATORY INFORMATION (Continued)

SARA TITLE III:

SECTION 302 EXTREMELY

HAZARDOUS SUBSTANCES...: None

SECTION 311/312

HAZARD CATEGORIES.....: Immediate Health Hazard; Delayed 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	40-45 %	PA1, PA4, MA, NJ1
Water 7732-18-5	40-45 %	PA3, NJ4
Sodium Acetate 127-09-3	1-5 %	PA3, NJ4
Sodium Sulfite 7757-83-7	5-10 %	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
 1 0 0 B
 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
 B=Safety Glasses, Gloves

16. OTHER INFORMATION (Continued)

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.....: Update Format
PREPARED BY.....: R. Ruppel-Kerr
APPROVED BY.....: H. W. Gventer
APPROVAL DATE.....: 03/24/1998
SUPERSEDES DATE.....: None
MSDS NUMBER.....: 33316

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Agfa Corporation. The data on this sheet relates only to the specific material designated herein. Agfa Corporation assumes no legal responsibility for use or reliance upon these data.

Product: Cinerex XF2 Fixer
Approval date: 03/24/1998

MSDS Page 7
Last page

THIS PAGE WAS INTENTIONALLY LEFT BLANK

3. HAZARDS IDENTIFICATION (Continued)

* be given off during burning or thermal decomposition. *

POTENTIAL HEALTH EFFECTS:

ROUTE(S) OF ENTRY.....: Eye Contact; Skin Contact; Inhalation;
Ingestion

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE INHALATION.....: Inhalation of ammonium thiosulfate and sodium sulfite may be irritating to the respiratory tract with symptoms of sore throat, coughing, and runny nose. Sulfites 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.

ACUTE SKIN CONTACT.....: Ammonium thiosulfate and sodium sulfite may be irritating to the skin with symptoms of reddening and itching.

CHRONIC SKIN CONTACT.....: Repeated or prolonged contact to sulfites may cause an allergic skin reaction in sensitive individuals.

ACUTE EYE CONTACT.....: Ammonium thiosulfate and sodium sulfite may be irritating to the eyes with symptoms of reddening, tearing, and stinging.

ACUTE INGESTION.....: Ingestion of sodium sulfite and ammonium thiosulfate may cause gastrointestinal irritation.

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.....: In case of contact, remove contaminated clothing, immediately wash skin with plenty of water. Wash clothing before reuse. Call a physician if irritation persists.

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, call a physician.

5. FIRE FIGHTING MEASURES:

FLASH POINT.....: Noncombustible

EXTINGUISHING MEDIA.....: Material is not combustible. Use
extinguishing media suitable for other
combustible materials in the area.

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

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. Dike Spill. Prevent liquid from entering
sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or
other absorbent material.

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.....: Keep from freezing.

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.

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.

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

8. PERSONAL PROTECTION (Continued)

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.....: Liquid
APPEARANCE.....: Clear
COLOR.....: Colorless
ODOR.....: Slight sulfur dioxide
pH: Approx. 5.2
BOILING POINT.....: Approx. 212 F (100 C)
MELTING/FREEZING POINT....: Not Established
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: Approx. 1.09
BULK DENSITY.....: Not Established
% VOLATILE BY WEIGHT.....: Not Established
VAPOR PRESSURE: Not Established

10. STABILITY AND REACTIVITY:

STABILITY.....: This is a stable material.
HAZARDOUS POLYMERIZATION...: Will not occur.
INCOMPATIBILITIES.....: Strong alkali, strong acids, oxidizers
INSTABILITY CONDITIONS.....: None Known
DECOMPOSITION PRODUCTS.....: Oxides of sulfur, CO2, carbon monoxide, ammonia

11. TOXICOLOGICAL INFORMATION:

NO ANIMAL TOXICITY INFORMATION AVAILABLE

12. ECOLOGICAL INFORMATION:

12. ECOLOGICAL INFORMATION (Continued)

NO ECOLOGICAL INFORMATION AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD.....: Recover nonusable free liquid 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.....: Aqueous Photochemical Solution
PRODUCT LABEL.....: Cinerex XF2 Fixer Working Strength

DOT (DOMESTIC SURFACE)

HAZARD CLASS OR DIVISION: Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER...: Non-Regulated

ICAO / IATA (AIR)

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

15. REGULATORY INFORMATION (Continued)

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	10-15 %	PA1, PA4, MA, NJ1
Water 7732-18-5	85-90 %	PA3, NJ4
Sodium Sulfite 7757-83-7	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.....: Update Format
 PREPARED BY.....: R. Ruppel-Kerr

16. OTHER INFORMATION (Continued)

APPROVED BY.....: J. M. Mostowy
APPROVAL DATE.....: 03/24/1998
SUPERSEDES DATE.....: None
MSDS NUMBER.....: 33315

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Agfa Corporation. The data on this sheet relates only to the specific material designated herein. Agfa Corporation assumes no legal responsibility for use or reliance upon these data.

Product: Cinerex XF2 Fixer Working Strength
Approval date: 03/24/1998

MSDS Page 7
Last page

THIS PAGE WAS INTENTIONALLY LEFT BLANK.