

# 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.....: G-333C Rapid Fixer  
PRODUCT CODE.....: MUWCV000 FSE76000 FOEXO000 FOE1U000 EGCQT000  
CHEMICAL FAMILY.....: Aqueous Photochemical Solution  
BUSINESS GROUP.....: Graphic Systems  
AGFA MSDS NUMBER.....: 137g.005

## 2. COMPOSITION/INFORMATION ON INGREDIENTS:

INGREDIENT NAME /CAS NUMBER	EXPOSURE LIMITS	CONCENTRATION (%)
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\*\*\*\*\* HAZARDOUS INGREDIENTS \*\*\*\*\*  
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Ammonium Thiosulfate 7783-18-8	OSHA PEL : Not Established ACGIH TLV: Not Established	45-50 %
Sodium Sulfite 7757-83-7	OSHA PEL : Not Established ACGIH TLV: Not Established	1- 5 %
Acetic Acid 64-19-7	OSHA PEL : 10 ppm TWA 25 mg/m3 TWA ACGIH TLV : 10 ppm TWA 25 mg/m3 TWA ACGIH STEL: 15 ppm TWA 37 mg/m3 TWA	1- 5 %

## 3. HAZARDS IDENTIFICATION:

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

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\* EMERGENCY OVERVIEW \*  
\*  
\* WARNING! Color: Colorless; Form: Liquid; Clear; Odor: \*  
\* Slight sulfur dioxide; 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. \*  
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## POTENTIAL HEALTH EFFECTS:

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

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:**

**ACUTE INHALATION.....:** Inhalation of ammonium thiosulfate, sodium sulfite and acetic acid 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.....:** Direct contact with acetic acid can cause severe irritation resulting in burning, reddening, itching, and swelling. Ammonium thiosulfate and sodium sulfite may be irritating to the skin with symptoms of reddening and itching. Abraded skin and moist skin may intensify these effects.

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

**ACUTE EYE CONTACT.....:** Overexposure to acetic acid can cause severe irritation resulting in burning, stinging, reddening and swelling. 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. Swallowing concentrated acetic acid may cause severe injury.

**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 pre-existing eye, skin or respiratory conditions may be more susceptible to the effects of this product.

1 Supplier MSDS

**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.....:** 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 SO<sub>2</sub> 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. 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.....:** Keep from freezing.

137G.005

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.....: Liquid  
APPEARANCE.....: Clear  
COLOR.....: Colorless  
ODOR.....: Slight sulfur dioxide  
pH .....: 5.3  
BOILING POINT.....: Approx. 212 F (100 C)  
MELTING/FREEZING POINT....: Not Established  
SOLUBILITY IN WATER .....: Soluble  
SPECIFIC GRAVITY .....: 1.334  
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  
INSTABILITY CONDITIONS.....: None Known  
DECOMPOSITION PRODUCTS.....: Oxides of sulfur, CO2, carbon monoxide, ammonia

**11. TOXICOLOGICAL INFORMATION:**

TOXICITY DATA FOR: Acetic Acid  
ACUTE TOXICITY  
ORAL LD50.....: 3310 mg/kg (rat)  
DERMAL LD50.....: 1060 mg/kg (rabbit) (1)  
INHALATION LC50.....: LC50: 5620 ppm/1 hr. (mouse) (2)

1 Supplier Material Safety Data Sheet  
2 Occupational Health Services Material Safety Data Sheet

**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.....: Not Applicable  
 PRODUCT LABEL.....: G-333C Rapid Fixer

DOT (DOMESTIC SURFACE)  
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HAZARD CLASS OR DIVISION .....: Non-Regulated

IMO / IMDG CODE (OCEAN)  
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HAZARD CLASS DIVISION NUMBER...: Non-Regulated

ICAO / IATA (AIR)  
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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; 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	45-50 %	PA1, PA4, MA, NJ1
Water 7732-18-5	40-45 %	PA3, NJ4
Sodium Sulfite 7757-83-7	1-5 %	PA3, NJ4
Sodium Acetate 127-09-3	1-5 %	PA3, NJ4
Acetic Acid 64-19-7	1-5 %	PA1, PA4, MA, NJ1, NJ3

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.....: Revised Corrected Formula (Sections 2, 11 and 16)  
PREPARED BY.....: R. Ruppel-Kerr  
APPROVED BY.....: M. Patrick  
APPROVAL DATE.....: 11/16/2004  
SUPERSEDES DATE.....: 07/11/2003  
MSDS NUMBER.....: 33274

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