



ACUTE EYE CONTACT.....: Potassium bromide may be irritating to the eyes with symptoms of reddening, tearing, and stinging. Overexposure to acetic acid can cause severe irritation and corrosion resulting in burning, stinging, reddening, swelling and possible injury to the cornea depending on the concentration of the acid.

ACUTE INGESTION.....: Ingestion of potassium bromide may cause nausea, vomiting, and abdominal pain. 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 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.....: 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: None

**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. Spill may be neutralized with powdered Sodium Carbonate. 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.

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 available. Educate and train employees on the safe use and handling of the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

PHYSICAL FORM.....: Liquid  
APPEARANCE.....: Clear  
COLOR.....: Colorless  
ODOR.....: Vinegar  
pH .....: Approx. 2  
BOILING POINT.....: Approx. 212 F (100 C)  
MELTING/FREEZING POINT....: Not Established  
SOLUBILITY IN WATER .....: 100%  
SPECIFIC GRAVITY .....: Approx. 1.13  
BULK DENSITY.....: Not Established  
VAPOR PRESSURE .....: Not Established

**10. STABILITY AND REACTIVITY:**

STABILITY.....: This is a stable material.  
HAZARDOUS POLYMERIZATION...: Will not occur.  
INCOMPATIBILITIES.....: Strong alkali, oxidizers  
INSTABILITY CONDITIONS.....: None known.  
DECOMPOSITION PRODUCTS.....: In case of fire oxides of CO<sub>2</sub>, carbon monoxide and other potentially toxic fumes can be generated due to thermal decomposition.

**11. TOXICOLOGICAL INFORMATION:**

TOXICITY DATA FOR: Acetic Acid

ACUTE TOXICITY

ORAL LD50.....: 3310 mg/kg (rat) (1)  
DERMAL LD50.....: 1060 mg/kg (rabbit) (1)  
INHALATION LC50....: LC50: 5620 ppm/1 hr. (mouse) (2)  
EYE EFFECTS.....: 50 ug open eye (rabbit)- severe irritation (2); 5 mg/30 seconds rinsed eye (rabbit) - mild irritation (2)  
SKIN EFFECTS.....: 525 mg open skin (rabbit) - severe irritation (2); 20 mg/24 hrs. skin (rabbit) - mild irritation (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.....: Aqueous Photochemical Solution containing Acetic Acid

PRODUCT LABEL.....: Agfa RP Developer Starter

DOT (DOMESTIC SURFACE)  
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PROPER SHIPPING NAME.....: Acetic Acid Solution  
HAZARD CLASS OR DIVISION .....: 8  
UN/NA NUMBER.....: UN2790  
PACKING GROUP .....: III  
DOT PRODUCT RQ lbs (kgs).....: 33,333 lbs (15119.8 kgs)  
HAZARD LABEL(s).....: Corrosive  
HAZARD PLACARD(s).....: Corrosive

Limited Quantity Exception may apply to this product, for "inner packagings not over 1.0 L (0.3 gal) for liquids and 1.0 kg (2.2 lb) for solids". 173.154(b) (1). Each package must conform to the packaging requirements of Subpart B of Part 173 and may not exceed 30 kg (66 lb) gross weight. For further information consult the 49 CFR.

IMO / IMDG CODE (OCEAN)  
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PROPER SHIPPING NAME.....: Acetic Acid Solution  
HAZARD CLASS DIVISION NUMBER....: 8  
UN NUMBER.....: UN2790  
PACKAGING GROUP.....: III  
HAZARD LABEL(s).....: Corrosive  
HAZARD PLACARD(s).....: Corrosive

ICAO / IATA (AIR)  
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PROPER SHIPPING NAME.....: Acetic Acid Solution  
HAZARD CLASS DIVISION NUMBER....: 8  
UN NUMBER.....: UN2790  
SUBSIDIARY RISK.....: None  
PACKING GROUP.....: III  
HAZARD LABEL(s).....: Corrosive  
RADIOACTIVE?.....: Non-Radioactive  
PASSENGER AIR - MAX. QTY. ....: 5 L  
PASSENGER PACKING INSTRUCTION...: 818  
CARGO AIR - MAX. QTY. ....: 60 L  
CARGO AIR PACKING INSTRUCTION...: 820

**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...: Acetic Acid (CAS# 64-19-7) - 5,000 lbs.

SARA TITLE III:

SECTION 302 EXTREMELY

HAZARDOUS SUBSTANCES...: None

SECTION 311/312

HAZARD CATEGORIES.....: Immediate Health Hazard

SECTION 313

TOXIC CHEMICALS.....: None

RCRA STATUS.....: When discarded in its purchased form, this product meets the criteria of Corrosivity, and should be managed as a hazardous waste (EPA Hazardous Waste Number D002). (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
Acetic Acid 64-19-7	10-15 %	PA1, PA4, MA, NJ1, NJ3
Water 7732-18-5	70-75 %	PA3, NJ4
Potassium Bromide 7758-02-3	10-15 %	PA3, NJ4

MA = Massachusetts Hazardous Substance List  
 NJ1 = New Jersey Hazardous Substance List  
 NJ3 = New Jersey Special Health 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  
                           3           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.....: Revise Transportation Classification, harmonized  
 PREPARED BY.....: R. Ruppel-Kerr  
 APPROVED BY.....: M. Patrick  
 APPROVAL DATE.....: 09/09/2002  
 SUPERSEDES DATE.....: 10/17/1997  
 MSDS NUMBER.....: 23928

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