

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE INHALATION.....: Overexposure to acetic acid vapors and aluminum sulfate can cause irritation to the respiratory tract resulting in coughing, runny nose and sore throat. Inhalation of nonylphenol polyethylene oxide may be irritating to the mucous membranes of the respiratory tract with symptoms of coughing, sore throat, and runny nose.

ACUTE SKIN CONTACT.....: Direct contact with acetic acid and aluminum sulfate can cause skin irritation with symptoms of burning, reddening, itching, and swelling. Skin sensitization with acetic acid is rare, but has been reported. Direct contact with the nonylphenol polyethylene oxide may cause irritation resulting in reddening, itching, drying and stinging.

ACUTE EYE CONTACT.....: Overexposure to acetic acid can cause severe irritation resulting in burning, stinging, reddening, tearing, swelling and possible injury to the cornea depending on the concentration of the acid. Aluminum sulfate may cause irritation and possible corneal burns due to the reaction of the compound with moisture to form sulfuric acid. Direct contact with nonylphenol polyethylene oxide may cause irritation resulting in reddening, itching, drying and stinging.

ACUTE INGESTION.....: Swallowing concentrated acetic acid may cause severe injury. Ingestion of aluminum sulfate may cause irritation or burn the digestive tract.

CHRONIC EFFECTS OF EXPOSURE...: No applicable information was found concerning any adverse chronic health effects from overexposure to this product.

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: 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. 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 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.....: Vinegar
pH: 2.5
BOILING POINT.....: Approx. 212 F (100 C)
MELTING/FREEZING POINT....: Not Established
SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: 1.05
BULK DENSITY.....: Not Applicable
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.....: Oxides of sulfur, CO2, carbon monoxide

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)
EYE EFFECTS.....: Corrosive
SKIN EFFECTS.....: Corrosive

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 and Aluminum Sulfate

PRODUCT LABEL.....: G-353C Fixer Part B

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...: Acetic Acid (CAS# 64-19-7) - 5,000 lbs.; Aluminum
Sulfate (CAS# 10043-01-3) - 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.....: 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
Acetic Acid 64-19-7	1-5 %	PA1, PA4, MA, NJ1, NJ3
Aluminum Sulfate 10043-01-3	1-5 %	PA1, PA4, MA, NJ1
Water 7732-18-5	90-95 %	PA3, NJ4
Nonylphenol polyethylene oxide 9016-45-9	1-5 %	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
 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.....: Reviewed, Harmonized
PREPARED BY.....: R. Ruppel-Kerr
APPROVED BY.....: M. Patrick
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