

MATERIAL SAFETY DATA SHEET

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812404R - ChemPact(R) Imagesetter Fixer Replenisher
Fuji Hunt Photographic Chemicals, Inc.

SECTION 1 - COMPANY IDENTIFICATION

Catalog / Sub-assembly Number: 812404R
FUJI HUNT Photographic Chemicals, Inc.
40 Boroline Road
P.O. Box 320
Allendale, NJ 07401-0320

TRANSPORTATION EMERGENCIES (24HR)
Inside US/Canada 800-424-9300
Outside US/Canada 703-527-3887
(Accepts collect calls)
MEDICAL EMERGENCIES (24HR)
Prosar 877-935-7387
NON-EMERGENCIES
EHS Hotline 201-995-2330
General Info 201-995-2200

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Table with 5 columns: Ingredients, CAS Number, Wt.%, OSHA PEL (mg/m3), ACGIH (mg/m3). Rows include Aluminum Sulfate, Ammonium Thiosulfate, Sodium Acetate, Sodium Thiosulfate, and Water.

NE=Not Established STEL=Short Term Exposure Limit C=Ceiling Limits
All ingredients are on the TSCA inventory or comply with TSCA requirements.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: Clear, colorless, aqueous liquid
Odor: no odor

Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapor. Do not swallow. Wear chemical safety goggles & neoprene gloves and apron. Wash thoroughly after handling. Keep container closed when not in use. Use only with adequate ventilation. May produce hazardous gases under fire conditions. During emergencies, wear equipment to protect eyes, skin and respiratory tract. Dike or absorb spills to keep material and run-off from entering sewer or waterways. Use water spray to cool containers and disperse vapors. Box may contain multiple containers having multiple components. Consult all MSDSs.

HMIS: Health: 1 Flammability: 0 Reactivity: 0 Protection: C
NFPA: Health: 1 Flammability: 0 Reactivity: 0 Spec. Haz.: None

Hazard Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
A = Gloves B = Gloves & Goggles C = Gloves, Goggles & Apron
D = Face Shield, Gloves, Goggles & Apron

UN NO: None

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SECTION 3 - HAZARDS IDENTIFICATION (Cont.)

DOT GUIDE: ERG Guide 111

Potential Health Effects:

- Skin: Contact causes irritation.
- Eyes: Causes irritation.
- Inhalation: Irritant to respiratory tract and mucous membranes.
- Ingestion: Ingestion of product may cause nausea and vomiting.

Conditions aggravated by exposure:

None expected except those associated with acute effects.

N

SECTION 4 - FIRST AID MEASURES

- Eye Contact: Immediately flush with COOL water for 15 minutes. Call a physician.
- Skin Contact: In case of skin contact; immediately flush with cool water for 15 minutes. Call a physician.
- Ingestion: In case of ingestion; induce vomiting upon medical advice. Call a physician.
- Inhalation: Immediately remove victim to fresh air. Call a physician for further recommendations.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties

- Flash Point: None deg F (TCC)
- Autoignition Temperature: N/A deg F (CC)
- Explosion Limits: Lower: N/A vol.%; Upper: N/A vol.%; Not Tested

Extinguishing Media:

Choose extinguishing media suitable for the surrounding materials, such as water spray, dry chemical, alcohol foam or carbon dioxide.

Unsuitable Extinguishing Media:

No restrictions on media based on knowledge of this material.

Fire Fighting Instructions:

Water spray should be used to cool fire exposed containers and to disperse un-ignited vapors. Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when material has ignited or becomes involved in a fire. Try to remove material containers from fire area if can be accomplished without risk to personnel.

Evacuate area and fight fire from a safe distance. Call your local fire department. Wear positive pressure, breathing apparatus and protect eyes and skin. Use water to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Fire media run-off can damage the environment. Dike and collect media used to fight fire.

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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills:

For small incidental spills and leaks wear chemical safety goggles, and neoprene gloves and apron or coveralls. Isolate area of spill by diking. Stop source of leak. Add dry absorbent. Clean up and place in an approved D.O.T. container and seal. Wash all contaminated clothing before reuse, and discard contaminated leather shoes.

Large Spills:

For larger spills requiring emergency response, neoprene boots and respiratory protection may also be required. Follow OSHA regulations and NIOSH recommendations for respirator use (29 CFR 1910.134 and NIOSH Pub. 87-108) and emergency response (see 29 CFR 1910.120). Isolate area of spill by diking. Stop source of leak. Add dry absorbent. Clean up and place in an approved D.O.T. container and seal. Wash all contaminated clothing before reuse, and discard contaminated leather shoes. Call the emergency telephone number shown on the front of this sheet.

SECTION 7 - HANDLING / STORAGE

Handling:

Avoid contact with eyes, skin or clothing. Avoid breathing mist or vapor. Do not swallow. Wear chemical safety goggles and neoprene gloves and apron. Wash thoroughly after handling. Keep container closed when not in use. Use only with adequate ventilation.

Storage:

Store in a cool, dry, well-ventilated area. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Ventilation:

Good general ventilation should be sufficient for most processing operations. Vent work area to ensure airborne concentrations are below the current occupational exposure limits. Ten (10) or more room air changes per hour containing a minimum of 15% fresh air will meet these requirements. Consult ASHRAE 62-1989 for further requirements.

Personal Protective Equipment

Respiratory Protection: If used under normal operating conditions and with adequate ventilation, respiratory protection is not required. However, refer to OSHA 29 CFR 1910.134.

Skin Protection: Neoprene gloves and apron

Eye Protection: Chemical safety goggles

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless, aqueous liquid

Odor: no odor

Change in Physical State:

Boiling Point: >212 deg F

Melting Point: N/D deg F

Specific Gravity: 1.17 Water=1

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

Vapour Pressure: ~15 mmHg @ 20C
Viscosity: N/A
Solubility in Water: Complete
pH Value: 4.93
VOC (lbs/gal): 0 (USEPA Method 24)

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Polymerization:

Hazardous polymerization WILL NOT occur if product is used and stored as directed. Product is stable if used and stored as directed.

Hazardous Decomposition Products:

Oxides of Sulfur; Oxides of Carbon; Oxides of Nitrogen; Ammonia

Materials and Conditions to Avoid:

Avoid contact with strong oxidizers, strong acids, strong bases and nitrates. Avoid excess heat and moisture. This product contains an ammonia compound. Do not allow this solution to come in contact with household or industrial bleaches (Sodium Hypochlorite). Mixing of these chemicals can result in the release of hazardous or toxic gases.

Inhalation of these gases may cause severe respiratory irritation.

SECTION 11 - TOXICOLOGICAL INFORMATION

Product Information

LD50 (oral, rat): No Data Available

Acute Overexposure:

Skin, eye, mucous membrane and respiratory tract irritant.

Chronic Overexposure:

No other effects besides those associated with acute exposure.

Ingredient information:

No other information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity Data: No Data Available

Chemical Fate Data: No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Hazardous Waste Characteristic:

None

Recommendation:

Dispose of contaminated product, empty containers and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Discharge of processing effluent to the sewer may require a permit. DO NOT discharge effluent solutions to septic systems.

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SECTION 14 - TRANSPORTATION INFORMATION

Ground Shipping Information

Proper Shipping Name: Chemicals, N.O.I., Not D.O.T. regulated.
 Hazard Class: None
 UN/NA Number: None
 Packing Group: None

Air (ICAO/IATA) Shipping Information

Proper Shipping Name: Chemicals, N.O.I., Not D.O.T. regulated.
 Hazard Class: None
 UN No: None
 Packing Group: None
 Subsidiary Risk: None
 UN/DOT Labels Needed: None

International Maritime Organization (IMO) Additional Shipping Class:

IMDG Code: Not Applicable
 Amdt. Code: Amdt. N/A
 HTS Code: Not Applicable

Product is labeled in accordance with US D.O.T. 49 CFR.

Further information:

Please call (201) 995-2200 for further D.O.T. information.

SECTION 15 - REGULATORY INFORMATION

**Note: The ingredient information listed in this section is provided for reporting requirements as dictated by USEPA, state and local regulation. If ingredient is listed in this section but not in Section 2, then the concentration of this ingredient is below de minumis (less than 0.1%).

U.S. FEDERAL REGULATIONS:

- 313 = SARA Title III Section 313 (40 CFR 372 -- Toxic Release Inventory)
- 355 = SARA Title III Section 302 (40 CFR 355 -- Extremely Hazardous Substance)
- 302 = SARA Title III Section 304 (40 CFR 302 -- Hazardous Substance List)
- CWA = Clean Water Act Priority Pollutants List
- CAA = Clean Air Act 1990 Hazardous Air Contaminants
- HAP = Clean Air Act - HON Rule - HAPs

Ingredients	CAS Number	313	355	302	CWA	CAA	HAP
Aluminum Sulfate	10043-01-3	Y	N	Y	N	N	N
Ammonium Thiosulfate	7783-18-8	Y	Y	Y	N	N	N
Sodium Acetate	127-09-3	N	N	N	N	N	N
Sodium Thiosulfate	7772-98-7	N	N	N	N	N	N
Water	7732-18-5	N	N	N	N	N	N

TSCA 12(b) Export Notification

None required

TOXICITY INFORMATION:

- IRC1 = IARC Group 1 Human Carcinogens List
- IRC2 = IARC Group 2 Human Carcinogens List (limited human data)
- IRC3 = IARC Group 2B Human Carcinogens List (sufficient animal data)

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SECTION 15 - REGULATORY INFORMATION (Cont.)

NTP = NTP Known Carcinogens List
 OSHA = OSHA Known Carcinogens List

Ingredients	CAS Number	IRC1	IRC2	IRC3	NTP	OSHA
Aluminum Sulfate	10043-01-3	N	N	N	N	N
Ammonium Thiosulfate	7783-18-8	N	N	N	N	N
Sodium Acetate	127-09-3	N	N	N	N	N
Sodium Thiosulfate	7772-98-7	N	N	N	N	N
Water	7732-18-5	N	N	N	N	N

STATE REGULATIONS:

FL = Florida Hazardous Substance List MA = Massachusetts Right-To-Know List
 MI = Michigan Critical Materials List MN = Minnesota Hazardous Substance List
 NJ = New Jersey Right-To-Know List PA = Pennsylvania Right-To-Know List

Ingredients	CAS Number	PA	NJ	MN	MI	MA	FL
Aluminum Sulfate	10043-01-3	Y	Y	Y	N	Y	Y
Ammonium Thiosulfate	7783-18-8	Y	Y	Y	N	Y	Y
Sodium Acetate	127-09-3	N	N	N	N	N	N
Sodium Thiosulfate	7772-98-7	N	N	N	N	N	N
Water	7732-18-5	N	N	N	N	N	N

The following information is required by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 or Proposition 65. This regulation does not address di minimus levels; therefore, even trace amounts of chemicals included on these lists must be noted with the "Safe Harbor" wording.

WARNING: Known to the State of California to cause cancer:
 ****None Listed****

WARNING: Known to the State of California to cause developmental toxicity:
 CAS NUMBER CHEMICAL NAME
 7439-97-6 MERCURY

WARNING: Known to the State of California to cause female reproductive effects
 ****None listed****

WARNING: Known to the State of California to cause male reproductive effects:
 ****None listed****

The following designation is used only for those facilities that have air permits in nonattainment areas for ozone:
 Non-Photochemically Reactive

SECTION 16 - OTHER INFORMATION

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.