



MATERIAL SAFETY DATA SHEET

Finished Goods Catalog

NDT-SFU/NDT-SGU - AUFIX UNIVERSAL FIXER & REPLENISHER, PART A

Manufacturer Name

FUJI NDT SYSTEMS, DIVISION OF FUJI MEDICAL SYSTEMS

SECTION 1 - COMPANY IDENTIFICATION

FUJI NDT SYSTEMS

Division of FUJI MEDICAL SYSTEMS USA

850 Central Avenue

Hanover Park, IL 60133

Technical Contact:

Non-Emergency No. 1-800-323-2546

Emergency No. 1-800-424-9300

Emergency No. 1-703-527-3887

(Outside US & Canada)

Catalog/Sub-assembly Number: NDT-SFU/NDT-SGU

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Wt. %	OSHA PEL (mg/m3)	ACGIH (mg/m3)
Ammonium Thiosulfate	7783-18-8	40-60%	NE	NE
Sodium Sulfite	7757-83-7	5-10%	NE	NE
Water	7732-18-5	40-60%	NE	NE

NE=Not Established    STEL=Short Term Exposure Limit    C=Ceiling Limits

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

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Appearance: Clear, colorless, aqueous liquid

Odor: Slight ammonia 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.

HMIS: Health: 1    Flammability: 0    Reactivity: 0    Protection: B  
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

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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:
- Allergic reaction to sulfites may cause respiratory distress.

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; seek immediate medical attention.
- 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.%; Not Tested
- Upper: N/A vol.%;

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spills:

For incidental spills and leaks, wear adequate personal protective equipment, see Section 8 (Exposure & Personal Protection). Spills should be contained by, and covered with suitable absorbent material and removed for disposal. Dispose of according to local and national regulations. Prevent from entering into soil, waterways and groundwater.

Large Spills:

For larger spills, requiring emergency response, neoprene boots and respiratory protection may also be required. Follow OSHA regulations and NIOSH recommendations for respiratory protection (see 29 CFR 1910.134 and NIOSH pub. 87-108) and emergency response (see 29 CFR 1910.120). Hold in properly labeled DOT-approved waste container. Dike large spills to minimize the spill area. Material can cause environmental damage.

### 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: Slight ammonia odor

Change in Physical State:

Boiling Point: >212 deg F  
Melting Point: N/D deg F  
Specific Gravity: 1.32 Water=1  
Vapour Pressure: ~17 mmHg @ 20C  
Viscosity: N/A  
Solubility in Water: Complete  
pH Value: 5.20  
VOC (lbs/gal): 0 (Minus water)

### 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:

Keep away from excess heat. Avoid contact with strong oxidizers, strong acids and strong bases. 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): >5000 mg/kg

Acute Overexposure:

Skin, eye, mucous membrane and respiratory tract irritant.

Chronic Overexposure:

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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.

SECTION 14 - TRANSPORTATION INFORMATION

Domestic DOT Shipping Class: Chemicals, N.O.I., Not D.O.T. regulated.  
Hazard Class: None  
UN Number: None  
Packing Group: None  
International Maritime Organization (IMO) Additional Shipping Codes:  
IMDG Code: Not Applicable  
Amdt. Code: Amdt. N/A  
HTS No.: Not Applicable  
Product is labeled in accordance with US D.O.T. 49 CFR.

Passenger Aircraft Packing Instructions:  
None  
Further information:  
For further information, please call 800-323-2546

SECTION 15 - REGULATORY INFORMATION

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
Ammonium Thiosulfate	7783-18-8	Y	Y	Y	N	N	N
Sodium Sulfite	7757-83-7	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)  
NTP = NTP Known Carcinogens List  
OSHA = OSHA Known Carcinogens List

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Ingredients	CAS Number	IRC1	IRC2	IRC3	NTP	OSHA
Ammonium Thiosulfate	7783-18-8	N	N	N	N	N
Sodium Sulfite	7757-83-7	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
Ammonium Thiosulfate	7783-18-8	Y	Y	Y	N	Y	Y
Sodium Sulfite	7757-83-7	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 de 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:  
 \*\*\*\*None Listed\*\*\*\*  
 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\*\*\*\*

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.