SAFETY DATA SHEETS

This SDS packet was issued with item:

073266251

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

073266269

MATERIAL SAFETY DATA SHEET

FI Sales, LLC. Product: **X-ray Film Fixer Solution** Revision Date: **1/3/2008** Page 1 of 2

1. CHEMICAL PRODUCT & COMPANY INFORMATION

Product Identifier: X-ray Film Fixer solution, Ready-To-Use strength

General Use: Processing (image fixing & silver removal) of exposed X-Ray Film for viewing and storage

Manufactured in the U.S.A. for:

FI Sales, LLC., 761 N. 17th Street, Unit 17, St. Charles, Illinois 60174 (U.S.A.) Business Hours Phone: (630) 444 - 1380 FAX: (630) 444 - 1381

Chemical Emergency only, 24 Hour / 7 Day Response Phone: (800) 535-5053 & (352) 323 - 3500 INFOTRAC

2. COMPOSITION / INFORMATION ON INGREDIENTS

			Exposure Limits (ppm)			
			OSHA		ACGIH	
Ingredient	CAS No.	% by Wt.	TWA	PEL	TLV	STEL
Ammonium Thiosulfate	7763-18-8	12 - 15	N/Est	N/Est	N/Est	N/Est
(Ammonia, potential off-gas)	7664-41-7		50	N/Av	25	35
Acetic Acid	64-19-7	1 - 2.5	N/Est	10	10	15
Sodium Sulfite	7757-83-7	1 - 2.5	N/Est	N/Est	N/Est	N/Est
(Sulfur Dioxide, potential off-ga	as) 7446-09-5		5	N/Av	2	5
N/Est = Not Established	N/Av	= Not Available	(s)	= skin contact limit		(c) = ceiling limit

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Not Regulated as liquid product. Harmful or fatal if swallowed.

POTENTIAL HEALTH EFFECTS:

INHALATION: Fumes and vapors in areas at 75°F or cooler with good ventilation are mildly irritating to upper respiratory tract. Avoid using product in confined spaces without ventilation or with much warmer temperatures. Inhalation of liquid or mist, or dusts of dried product will cause same effects as "SKIN CONTACT" or "INGESTION" to body and respiratory system tissues.

EYE CONTACT: Will cause severe irritation. May cause chemical burns or corneal damage.

SKIN CONTACT: Avoid contact with liquid, mists, or spray to skin. Typically no ill effects for most people with occasional minor unprotected contact. Can be absorbed through skin and produce similar effects as INGESTION.

INGESTION: Harmful or fatal if swallowed. Will cause severe distress (violent colic, diarrhea, spontaneous vomiting) of the gastro-intestinal tract. Circulatory disturbances. Central Nervous System (CNS) depression. Potential aspiration hazard. Potential anaphylactic shock by allergic or asthmatic persons.

CHRONIC: This product does NOT contain any ingredient designated by IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogen.

4. FIRST AID MEASURES

INHALATION (of fumes): Remove patient to fresh air if dizzy or other symptoms. If breathing has stopped, give cardio-pulmonary respiration (CPR) and call for medical assistance.

EYE CONTACT: Flush with water for at least 15 minutes. Get medical attention immediately.

SKIN CONTACT: Wash with soap and water after removing contaminated clothing. Provide extra attention to hair and other not easy to clean areas. Get medical attention if irritation occurs or immediately if the skin contact area was large or prolonged.

INGESTION: Prevent aspiration of vomit into lungs. Induce vomiting immediately of conscious patient, and dilute stomach contents with water. Get medical attention immediately.

5. FIRE FIGHTING INFORMATION AND MEASURES

FLASH POINT: Product is Not Flammable **METHOD**: None

AUTOIGNITION TEMPERATURE: N/Av **FLAMMABLE LIMITS:** N/Av

HAZARDOUS COMBUSTION PRODUCTS: NONE. Thermal decomposition of liquid will release Ammonia gas and Sulfur dioxide. After the liquid has evaporated, there may be other unknown organic and inorganic potentially toxic or corrosive combustion by-product compounds.

EXTINGUISHING MEDIA RECOMMENDED: None specifically required for this product. Media used should be controlled by other materials involved in fire.

FIRE FIGHTING INSTRUCTIONS: Wear self-contained breathing apparatus and full protective equipment for all indoor and outdoor fires.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Neutralize pH of liquid with weak alkali base such as sodium carbonate or baking soda. Absorb with inert absorbent and place in chemical resistant liquid-proof container. Only small quantities may be rinsed down sanitary sewer.

Obtained by Global Safety Management, Inc. (www.globalsafetynet.com)

MATERIAL SAFETY DATA SHEET

FI Sales, LLC. Product: X-ray Film Fixer Solution Revision Date: 1/3/2008 Page 2 of 2

LARGE SPILL: Dike spill and contain to prevent run-off. Do NOT contaminate natural waterways (high nitrogen content). Neutralize pH of liquid with alkali / base. Transfer liquid to chemically resistant liquid storage containers. Dispose at a licensed facility according to all applicable regulations.

7. HANDLING AND STORAGE

HANDLING: Use in a well-ventilated area away from extreme heat. Avoid creating mist or spray. Keep containers closed. Wear protective equipment and clothing. Wash hands and gloves thoroughly after handling containers or contact with solution.

STORAGE: Keep in well-ventilated areas between 40°F and 90°F.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS: General or local exhaust should be used as required to keep vapors below exposure limits. RESPIRATORY PROTECTION: If vapor concentration exceeds allowable exposure limits or as general safety precaution, use a NIOSH/MSHA approved acid vapor cartridge (Sulfur Dioxide), canister respirator, self-contained breathing equipment or supplied air breathing equipment if exposure limits are exceeded. Follow the OSHA guidelines in 29 CFR 1910.134.

SKIN PROTECTION: Use impervious gloves and an impervious gown (or impervious apron and sleeves).

EYE PROTECTION: Use chemical splash goggles. A face shield should also be used if splashes to the face can be expected.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range :	220°F +	Melting Point:	30° F
Vapor Pressure:	18mm Hg @ 20°C	Vapor Density (Air = 1):	0.6
Solubility in Water:	total / 100%	Specific Gravity:	1.1 - 1.2
Odor:	Sulfurous / acetate odor	% Volatile by Volume:	80%
Appearance:	Transparent liquid with slight yellow/green tint	pH:	5.0 - 6.0

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (Conditions to avoid): Extreme heat.

INCOMPATIBILITY: Strong bases, reducing agents, aluminum alloys, magnesium alloys, zinc alloys.

HAZARDOUS DECOMPOSITION: Ammonia fumes, Sulfur oxides (SO, SO₂, and SO₃) fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

No specific data for this product.

12. **ECOLOGICAL INFORMATION**

No specific data for this product combination, but Biological Oxygen Demand is expected to be high with high Nitrogen content.

13. DISPOSAL CONSIDERATIONS

See Section 6.

14. TRANSPORTATION INFORMATION

U.S. DOT: Product is not regulated.

15. REGULATORY INFORMATION

TSCA INVENTORY of CHEMICAL SUBSTANCES STATUS: YES, ALL LISTED

Ammonium Thiosulfate. 7763-18-8 12% - 15% Ammonia (potential off-gas) 7664-41-7

Acetic Acid, 1% - 2.5% 64-19-7 1% - 2.5% Sodium Sulfite, 7757-83-7

Sulfur Dioxide, (potential off-gas) 7446-09-5

16. OTHER INFORMATION

NFPA HAZARD RATING: Health 2(s). Fire 1. Reactivity

(4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Minimal)KEY:

(s) = Skin contact may significantly add to the overall exposure

NOTICE: The information herein is presented in good faith and believed to be accurate and complete as of the effective date shown above. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities with this product and its disposal comply with all federal, state, and local laws, and of the resident country.

SAFETY DATA SHEET

SECTION 1 - General Information PRODUCT NAME Med-Dent ™ Fixer Premixed Photographic Solution C HMIS SCALE: Health 1 Flamability 0 Reactivity 0 PPE PRODUCT USE White Mountain Imaging CATALOG #: SUPPLIER PO Box 216 Salisbury, NH 03268 NS-204, NS-324 ADDRESS 603-648-2124 CHEMTREC 800-424-9300 **EMERGENCY TEL#** PHONE NO **SECTION 2 - Hazards Identification** Category WARNING Precautionary Statement. OSHA/GHS GHS 5 Skin: May cause mild skin irritation and or reaction. n/c Eye: Can cause irritation of eyes and mucous membranes. 2B 2B n/c 5 Oral: May be harmful if swallowed EFFECTS OF CRONIC EXPOSURE TO PRODUCT None known. (n/c: not within OSHA classification limits.) SECTION 3 - Product & Hazardous Ingredients Information **HAZARDOUS INGREDIENTS** Permissible Exposure Limit **CAS NUMBER** W/W % LD50 Water 7732-18-5 90-95 Not listed 42.6 gm/kg 2890 mg/kg Ammonium Thiosulfate 7783-18-8 8-12 Not listed Sodium Sulfite Not listed 7757-83-7 2825 mg/kg <2 Sodium Acetate 127-09-03 Not listed 3530 mg/kg **SECTION 4 - First Aid Measures** SKIN CONTACT Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice. Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist. DO NOT induce vomiting. Seek medical attention immediately. INHAI ATION If inhaled, remove to fresh air. **SECTION 5 - Fire Fighting Measures** Flamability YES NO IF YES UNDER WHAT CONDITIONS MEANS OF EXTINGUISHING As needed to extinguish adjacent fire source. FLASH POINT (C/F) AND METHOD UPPER LIMIT (% BY VOLUME) LOWER LIMIT (% BY VOLUME) AUTOIGNITION TEMPERATURE (C/F) Not appropriate Not appropriate Not appropriate Not appropriate HAZARDOUS COMBUSTION PRODUCTS EXPLOSION DATA SENSITIVITY TO IMPACT SENSITIVITY TO STATIC DISCHARGE "See Hazardous Decomposition Products" Not susceptable Not susceptable **SECTION 6 - Accidental Release** Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Consult with governmental regulatory agencies for appropriate disposal of this material. Wear appropriate protective equipment. SECTION 7 - Handling and Storage

Read and follow the label, safety data sheet, and instructions before using. Avoid any contact with skin and eyes. Keep container tightly closed. Avoid incompatible substances. Wash thoroughly after handling this product.

ABX_{TM} Fixer Premixed

SECTION 8 - Exposure Controls									
VENTILLATION SKIN OTHER	Good genera Latex or nitri Eye wash sta	RESPIRATORY	Not normally required						
	SECTION 9 - Physical & Chemical Properties								
PHYSICAL STATE	odor threshold Not available								
VAPOR PRESSURE (mm-Hg) VAPOR DENSITY (Air=1) 0.6 mm Hg		EVAPORATION RATE (Water=1) Not Available	BOILING POINT > 212 F	FREEZING POINT < 32 F					
рН 4.	ph SPECIFIC GRAVITY 4.40 1.085		solubility in water Complete	COEFF WATER/OIL N/A	%VOLATOILE (BY VOLUME) 80-90% as water				
		SECTION 10 - St	ability & Reactivity Data						
CHEMICAL STABILITY YES X NO IIF NO, UNDER WHAT CONDITIONS									
INCOMPATABLE WITH OTHER SUBSTANCES YES X NO Strong reducing agents & Strong bases.									
REACTIVITY AND UN	IDER WHAT CONDITIONS	Stable under a	mbient pressure and temp	erature					
HAZARDOUS DECOM	MPOSITION PRODUCTS	Sulfur dioxide	·						
		SECTION 11 - To	xicological In formation						
EXPOSURE	LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRO	DUCT	CARCINOGENICITY				
None k	None known Skin: Irritant		None known		Not listed by IARC, OSHA, or ACGIH				
TERATOGE	TERATOGENICITY REPRODUCTIVE TOXICITY		MUTAGENICITY	SYNERGISTIC PRODUCTS					
None Kr	None Known Not Known		None knowr	None known					
		SECTION 12 - I	Ecological Information						
No Data Available									
		SECTION 13 - D	isposal Considerations						
Dispose of this product in accordance with federal, state and/or local laws.									
SECTION 14 - Transportation Information									
Not regulated for transportation.									
SECTION 15 - Regulatory Information									
SARA: Reportable quantity (RQ) for Ammonium Thiosulfate 5000 lb. SARA Section 304, CERCLA Hazardous components - Ammonium Thiosulfate SARA Section 302,304,313 Hazardous components (None) Not a controlled product under Canadian WHMIS regulation									
		SECTION 16	- Other Information						
The information	The information contained in this SDS is furnished without warranty of any kind. The user should consider this data a								

supplement to other data gathered and must make an independent determination of suitability from this and other sources to assure proper use and disposal of this material and the health and safety of employees and customers.

PREPARED BY White Mountain Imaging PHONE NO 603-648-2124 Date: 5/20/2015

NS-204, NS-324

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