

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **Cine/Manual Developers Concentrate**

PRODUCT USE **Photographic Developer** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4001MD, 4001DF, 4005MD, 4005DF**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-90	not listed	42.6 gm/kg	not available
Sodium metabisulfite	7681-57-4	5-10	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Potassium hydroxide	1310-58-3	2-6	NIOSH (C) 2 mg/m3	365 mg/kg	not available
Hydroquinone	123-31-9	2-5	OSHA TWA 2 mg/m3	320 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. If ingested, seek immediate medical attention giving full details of amount swallowed and toxicity.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Prolonged inhalation may be irritating and may cause headaches.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. Remove contaminated clothing.

### EYE CONTACT

Immediately flush eyes with water for 15 minutes. Seek medical advice if symptoms develop.

### INGESTION

DO NOT induce vomiting. Seek medical advice.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD **Not appropriate** UPPER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** LOWER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** AUTOIGNITION TEMPERATURE (°C) **Not appropriate**

HAZARDOUS COMBUSTION PRODUCTS **See "Hazardous Decomposition Products".** EXPLOSION DATA **Not susceptible** SENSITIVITY TO IMPACT **Not susceptible** SENSITIVITY TO STATIC DISCHARGE **Not susceptible**

## SECTION 6 - Accidental Release

For a small spill, wear protective clothing as specified in Section 8. Neutralize with sodium bicarbonate. Stop source of the leak. Wipe or absorb material with inert absorbent material.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

## SECTION 8 - Exposure Controls

VENTILATION Good general ventilation

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

## SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale yellow			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) 0.6 mm Hg	VAPOUR DENSITY (Air = 1) < 17	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.5	SPECIFIC GRAVITY 1.120	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 90%

## SECTION 10 - Stability and Reactivity Data

 CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents

 INCOMPATIBILITY WITH OTHER SUBSTANCES YES  NO  IF YES, WHICH ONES?

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

 HAZARDOUS DECOMPOSITION PRODUCTS SO<sub>2</sub>

## SECTION 11 - Toxicological Information

 EXPOSURE LIMITS  
Hydroquinone 2 mg/M3

 IRRITANCY OF PRODUCT  
Skin: Irritant

 SENSITIZATION TO PRODUCT  
None known

 CARCINOGENICITY  
Not listed by IARC, NTP and OSHA.

 TERATOGENICITY  
Not known

 REPRODUCTIVE TOXICITY  
Not known

 MUTAGENICITY  
Not known

 SYNERGISTIC PRODUCTS  
Not known

## SECTION 12 - Ecological Information

No data available

## SECTION 13 - Disposal Considerations

Dispose of this material in accordance to federal, state and/or local laws.

## SECTION 14 - Transportation Information

Not regulated for transportation

## SECTION 15 - Regulatory Information

SARA: Threshold planning quantity (TPQ) for Hydroquinone 500 lb

Reportable quantity (RQ) for Hydroquinone 1 lb

SARA Section 304, CERCLA Hazardous components - Hydroquinone

SARA Section 302,304,313 Hazardous components (OSHA Subpart Z) Potassium hydroxide

## SECTION 16 - Other Information

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **Cine/ Manual Fixers, Concentrate**

PRODUCT USE **Photographic fixer**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
4001MF, 4001DF, 4005MF, 4005DF

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	40-50	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	40-50	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	4-8	not listed	2825 mg/kg	not available
Aluminum sulfate	10043-01-3	1-3	ACGIH TWA 2mg/m3	6201 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and/or allergic reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTIATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear liquid with a slight ammonia odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) <17 mg Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) 1	BOILING POINT 212°F	FREEZING POINT 32°F
pH 5.0	SPECIFIC GRAVITY 1.265	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 95%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents, bromide-based water cleanersINCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.HAZARDOUS DECOMPOSITION PRODUCTS  
SO<sub>2</sub>**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS None known	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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)

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 Automatic X-Ray Fixers Concentrate, Working Solution**

PRODUCT USE **Photographic fixer**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
3303, 4010F, 4010FP, 4300F

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	90-95	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	8-12	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<2	not listed	2825 mg/kg	not available
Aluminum sulfate	10043-01-3	<2	ACGIH TWA 2mg/m3	6201 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. may cause burning or irritation of eyes and mucous membranes. may cause mild skin irritation and /or allergic skin reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical advice giving details of amount swallowed and toxicity.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

## T2 Automatic X-Ray Fixers Concentrate, Working Solution

### SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

### SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear, colorless liquid with slight ammonia odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) <17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 4.20	SPECIFIC GRAVITY 1.085	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 50%

### SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents, strong bases.

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO

REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS  
Ammonia

### SECTION 11 - Toxicological Information

EXPOSURE LIMITS None known	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

### SECTION 12 - Ecological Information

No data available

### SECTION 13 - Disposal 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 regulations.

### SECTION 16 - Other Information

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 Automatic X-Ray Fixers Concentrate, Part B**

PRODUCT USE **Photographic fixer**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
3303, 4010F, 4010FP, 4300F

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	70-80	not listed	42.6 gm/kg	not available
Aluminum sulfate	10043-01-3	20-30	ACGIH TWA 2mg/m3	6201 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. may cause burning or redness of eyes and mucous membranes. may cause mild skin irritation and /or allergic skin reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical advice giving details of amount swallowed and toxicity.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source. At elevated temperatures (>1400°F), sulfur oxides may form.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**T2 Automatic X-Ray Fixers Concentrate, Part B****SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear, colorless to light yellow			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 3.50	SPECIFIC GRAVITY 1.330	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 70%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Precipitates alkalisINCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.HAZARDOUS DECOMPOSITION PRODUCTS  
None**SECTION 11 - Toxicological Information**EXPOSURE LIMITS  
Aluminum sulfate 2 mg/M<sup>3</sup>IRRITANCY OF PRODUCT  
None knownSENSITIZATION TO PRODUCT  
None knownCARCINOGENICITY  
Not listed by IARC,  
OSHA or ACGIH.TERATOGENICITY  
Not knownREPRODUCTIVE TOXICITY  
Not knownMUTAGENICITY  
Not knownSYNERGISTIC PRODUCTS  
Not known**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Aluminum sulfate, Class 9, UN 3082, PG III for quantities greater than 5000 lb. Not applicable for quantities less than 5000 lb.

**SECTION 15 - Regulatory Information**

No data available

**SECTION 16 - Other Information**

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 Automatic X-Ray Fixers Concentrate, Part A**

PRODUCT USE **Photographic fixer** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **3303, 4010F, 4010FP, 4300F**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	40-50	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	40-50	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	5-10	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	5-10	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. may cause burning or redness of eyes and mucous membranes. may cause mild skin irritation and /or allergic skin reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	Not normally required		
SKIN	Latex or nitrile	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 5.20	SPECIFIC GRAVITY 1.320	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 50%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong reducing agents, strong bases			
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?			
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.			
HAZARDOUS DECOMPOSITION PRODUCTS	Ammonia			

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Acetic acid: PEL 2.0 mg/m3	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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, Acetic acid 500 lb  
 SARA Section 304, CERCLA Hazardous components - Ammonium Thiosulfate  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **RP-3 Automatic x-ray Developer, Working Solution**

PRODUCT USE Photographic developer HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER White Mountain Imaging CATALOG # 4510-RP3, 45200-RP3  
ADDRESS PO Box 216 Salisbury NH 03268  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	Not established	42.6 gm/kg	not available
Potassium sulfite	10117-38-1	<3	NIOSH TWA 5 mg/m3	4340 mg/kg	not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Potassium hydroxide	1310-58-3	<2	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause irritation of eye and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD Not appropriate UPPER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate LOWER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate AUTOIGNITION TEMPERATURE (°C) Not appropriate

HAZARDOUS COMBUSTION PRODUCTS See "Hazardous Decomposition Products". EXPLOSION DATA Not susceptible SENSITIVITY TO IMPACT Not susceptible SENSITIVITY TO STATIC DISCHARGE Not susceptible

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	Not normally required		
SKIN	Nitrile gloves	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Yellow liquid with slight odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT >212°F	FREEZING POINT < 32°F
pH 10.35	SPECIFIC GRAVITY 1.085	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong oxidizers and strong acids			
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?			
REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.				
HAZARDOUS DECOMPOSITION PRODUCTS Sulfur dioxide				

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydroquinone 2.0 mg/m3 Potassium hydroxide 2.0	IRRITANCY OF PRODUCT Eye: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Not regulated for transportation by DOT and TDG

**SECTION 15 - Regulatory Information**

SARA: Reportable quantity (RQ) for Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	RP-3 Automatic x-ray Developer Concentrate, Part B				
PRODUCT USE	Photographic solution	HMIS SCALE	HEALTH 3	FLAMMABILITY 1	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG # 4010D-RP3, 45200D-RP3			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Diethylene glycol (2-hydroxyethyl ether)	111-46-6	70-80	OSHA TWA 10 ppm	12565 mg/kg	130 mg/m <sup>3</sup> 2h
Acetic acid	64-19-7	<10	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h
1-phenyl-3-pyrazolidinone	92-43-3	3-7	not listed	200 mg/kg	not available
Water	7732-18-5	3-7	not listed	42.6 gm/kg	not available
Indazole Derivative	5401-94-5	<1	Not established	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

**WARNING:** Avoid contact with skin, eyes or clothing. May cause severe irritation and possible burns to eyes, skin and respiratory tract. Ingestion may cause nausea and vomiting and diarrhea.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Prolonged skin contact may cause allergic reaction or dermatitis.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with cold water for 15 minutes. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for at least 15 minutes. Seek medical attention immediately.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention if symptoms appear.

### INHALATION

If inhaled, immediately remove to fresh air. If irritation persists seek medical advice.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
255 °F cc	10.8 %	1.6%	444 °F
HAZARDOUS COMBUSTION PRODUCTS	EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE
See "Hazardous Decomposition Products".	Not susceptible	Not susceptible	Not susceptible

## SECTION 6 - Accidental Release

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.		
SKIN	Nitrile gloves	EYE	Splash goggles
OTHER	Eye wash station		

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear yellow liquid with slight vinegar odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 13 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT >212°F	FREEZING POINT <32°F
pH 2.6	SPECIFIC GRAVITY 1.135 ± .005	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong reducing agents and strong bases
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	Oxides of nitrogen, oxides of carbon, sulfur oxides

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS TWA: 10 (ppm)	IRRITANCY OF PRODUCT Eye: Irritant Skin: Irritant	SENSITIZATION TO PRODUCT May cause dermatitis	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Mutagenic for bacteria	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

Ecotoxicity in water (LC50): 423 mg/l 24 hours [Fish (Goldfish)]. 88 ppLm 96 hours [Fish (fathead minnow)]. 75 ppm 96 hours [Fish (bluegill sunfish)]. >100 ppm 96 hours [Daphnia]. BOD5 and COD: BOD-5: 0.34-0.88 g oxygen/g

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Not regulated for transportation by DOT and TDG

**SECTION 15 - Regulatory Information**

TSCA 8(b) inventory: Acetic acid  
 CERCLA: Hazardous substances.: Acetic acid: 5000 lbs. (2268 kg)  
 California Director's List of Hazardous Substances (8 CCR 339): Acetic acid  
 RTK Listed in New York, Rhode Island, Pennsylvania, Florida, Minnesota, Massachusetts, New Jersey  
 D2-B (materials causing other toxic effects) under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	<b>T2 Automatic X-Ray Developers Concentrate, Part 1</b>				
PRODUCT USE	Photographic solution	HMIS SCALE	HEALTH <b>1</b>	FLAMMABILITY <b>0</b>	REACTIVITY <b>0</b> PPE <b>C</b>
SUPPLIER	White Mountain Imaging	CATALOG # 4010D, 4010D-ADM, 4010D-AG, 4010D-DP, 4010D-EX, 4010D-LA, 4010D-MR, 4010D-MV, 4010D-UM, 4200D,			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	<b>603-648-2124</b>	EMERGENCY TEL #	<b>CHEMTREC 800-424-9300</b>		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-70	not listed	42.6 gm/kg	not available
Sodium metabisulfite	7681-57-4	5-10	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Hydroquinone	123-31-9	5-10	OSHA TWA 2 mg/m3	320 mg/kg	not available
Potassium hydroxide	1310-58-3	2-6	NIOSH (C) 2 mg/m3	365 mg/kg	not available
Sodium metaborates	12179-04-3	2-6	NIOSH TWA 1 mg/m3	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD Not appropriate	UPPER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate	LOWER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate	AUTOIGNITION TEMPERATURE (°C) Not appropriate
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HAZARDOUS COMBUSTION PRODUCTS See "Hazardous Decomposition Products".	EXPLOSION DATA Not susceptible	SENSITIVITY TO IMPACT Not susceptible	SENSITIVITY TO STATIC DISCHARGE Not susceptible
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## 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, material 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.

## T2 Automatic X-Ray Developers Concentrate, Part 1

### SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

### SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear, off-white to pale yellow liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.60	SPECIFIC GRAVITY 1.270	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

### SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong oxidizing agents and strong acids

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO

REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS  
None

### SECTION 11 - Toxicological Information

EXPOSURE LIMITS

None known

IRRITANCY OF PRODUCT

Skin: Irritant

SENSITIZATION TO PRODUCT

None known

CARCINOGENICITY

Not listed by IARC,  
OSHA or ACGIH.

TERATOGENICITY

Not known

REPRODUCTIVE TOXICITY

Not known

MUTAGENICITY

Not known

SYNERGISTIC PRODUCTS

Not known

### SECTION 12 - Ecological Information

No data available

### SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb

SARA Section 304, CERCLA Hazardous components - (None)

SARA Section 302,304,313 Hazardous components (None)

Not a controlled product under Canadian WHMIS regulations.

### SECTION 16 - Other Information

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **ABX™ Developer Premixed**

PRODUCT USE Photographic solution

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER White Mountain Imaging

CATALOG #  
NS-204 NS-324

ADDRESS PO Box 216 Salisbury NH 03268

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	42.6 gm/kg	not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Potassium hydroxide	1310-58-3	<3	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale red odorless liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.20	SPECIFIC GRAVITY 1.060	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 90-95%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Mixing with fixer will cause ammonia gas. This will dissipate quickly as pH is neutralized.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None known

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydroquinone 2 mg/m3 Potassium hydroxide 2 mg/m3	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **ABX™ Fixer Premixed**

PRODUCT USE Photographic solution

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER White Mountain Imaging

CATALOG #  
NS-304 NS-324

ADDRESS PO Box 216 Salisbury NH 03268

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	<15	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<3	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	<2	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

### SECTION 8 - Exposure Controls

VENTILATION	Good general ventilation. <span style="float: right; font-size: small;">(Not normally required)</span>		
SKIN	Latex or nitrile	EYE	Splash goggles
OTHER	Eye wash station		

### SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE <b>Liquid</b>	ODOR AND APPEARANCE <b>Light blue liquid</b>			ODOR THRESHOLD <b>Not available</b>
VAPOUR PRESSURE (mmHg) <b>&lt; 17 mm Hg</b>	VAPOUR DENSITY (Air = 1) <b>0.6 mm Hg</b>	EVAPORATION RATE (Water = 1) <b>Not available</b>	BOILING POINT <b>212°F</b>	FREEZING POINT <b>32°F</b>
pH <b>4.40</b>	SPECIFIC GRAVITY <b>1.085</b>	SOLUBILITY IN WATER (20°C) <b>Complete</b>	COEFF WATER OIL <b>Not available</b>	PERCENT VOLATILE (BY VOLUME) <b>90-85%</b>

### SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS <b>Mixing with developer will cause ammonia gas. This will dissipate quickly as pH is neutralized.</b>		
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?		
REACTIVITY, AND UNDER WHAT CONDITIONS	<b>Stable under ambient pressure and temperature.</b>		
HAZARDOUS DECOMPOSITION PRODUCTS	<b>None known</b>		

### SECTION 11 - Toxicological Information

EXPOSURE LIMITS <b>Acetic acid 10 ppm</b>	IRRITANCY OF PRODUCT <b>None known</b>	SENSITIZATION TO PRODUCT <b>None known</b>	CARCINOGENICITY <b>Not listed by IARC, OSHA or ACGIH.</b>
TERATOGENICITY <b>Not known</b>	REPRODUCTIVE TOXICITY <b>Not known</b>	MUTAGENICITY <b>Not known</b>	SYNERGISTIC PRODUCTS <b>Not known</b>

### SECTION 12 - Ecological Information

No data available

### SECTION 13 - Disposal 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, Acetic acid 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 regulations.

### SECTION 16 - Other Information

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 ESC Developer Systems Cleaner, Part 1**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4902EC**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	95-99	not listed	42.6 gm/kg	not available
Potassium permanganate	7722-64-7	2-4	OSHA C 5 mg(Mn)m3	1090 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors from dilute solutions may be mildly irritating.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Rinse with ESC diluted neutralizer & wash exposed skin with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD **Not appropriate** UPPER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** LOWER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** AUTOIGNITION TEMPERATURE (°C) **Not appropriate**

HAZARDOUS COMBUSTION PRODUCTS **See "Hazardous Decomposition Products".** EXPLOSION DATA **Not susceptible** SENSITIVITY TO IMPACT **Not susceptible** SENSITIVITY TO STATIC DISCHARGE **Not susceptible**

## SECTION 6 - Accidental Release

Neutralize with diluted ESC Neutralizer Rinse or sodium sulfite. When neutralization is complete the solution will be white. 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	Deep blue liquid			Not available
VAPOUR PRESSURE (mmHg)	VAPOUR DENSITY (Air = 1)	EVAPORATION RATE (Water = 1)	BOILING POINT	FREEZING POINT
< 17 mm Hg	0.6 mm Hg	Not available	212°F	32°F
pH	SPECIFIC GRAVITY	SOLUBILITY IN WATER (20°C)	COEFF WATER OIL	PERCENT VOLATILE (BY VOLUME)
9.50	1.020	Complete	Not available	Not available

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Alcohol, HCL acids and organic substances.

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES  NO 

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Oxygen

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
Potassium permanganate 5 ppm TLV	None known	None known	Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
Not known	Not known	Not known	Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Potassium permanganate is 100 lb

SARA Section 304, CERCLA Hazardous components

SARA Section 302,304,313 Hazardous components (None)

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 ESC Developer Systems Cleaner, Part 2**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4902EC**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	95-99	not listed	42.6 gm/kg	not available
Sulfuric acid	7664-93-9	2-4	OSHA TWA 1 mg/m <sup>3</sup>	2140 mg/kg	5.1 g/m <sup>3</sup> 2h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Dermatitis

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Rinse with diluted ESC Neutralizer and wash exposed skin with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice immediately

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## SECTION 6 - Accidental Release

Neutralize with ESC Neutralizer Rinse or sodium sulfite. When neutralization is complete the solution will be white. 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear white liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 2.50	SPECIFIC GRAVITY 1.055	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents, strong bases.

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES  NO 

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Sulfur dioxide

**SECTION 11 - Toxicological Information**EXPOSURE LIMITS  
Sulfuric acid 1.0 mg/m3IRRITANCY OF PRODUCT  
None knownSENSITIZATION TO PRODUCT  
None knownCARCINOGENICITY  
Not listed by IARC,  
OSHA or ACGIH.TERATOGENICITY  
Not knownREPRODUCTIVE TOXICITY  
Not knownMUTAGENICITY  
Not knownSYNERGISTIC PRODUCTS  
Not known**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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**

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 ESC Developer Systems Cleaner, Neutralizer**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4902EC**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	95-99	not listed	42.6 gm/kg	not available
Sodium sulfite	7757-83-7	10-25	not listed	2825 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with cold or ambient water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	Not normally required		
SKIN	Latex or nitrile	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear white liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 7.0	SPECIFIC GRAVITY 1.110	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong reducing agents, strong acids.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	Sulfur dioxide

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Sulfuric acid 1.0 mg/m3	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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: TPQ for sodium sulfite is 5000 lb  
 SARA Section 304, CERCLA Hazardous components  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	<b>T2 ESC Developer Systems Cleaner Powder</b>				
PRODUCT USE	Photographic solutions	HMIS SCALE	HEALTH <b>1</b>	FLAMMABILITY <b>0</b>	REACTIVITY <b>0</b> PPE <b>C</b>
SUPPLIER	White Mountain Imaging	CATALOG # 4902-ECP			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	<b>603-648-2124</b>	EMERGENCY TEL #	<b>CHEMTREC 800-424-9300</b>		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Potassium permanganate	7722-64-7	2-4	OSHA C 5 mg(Mn)m3	1090 mg/kg	not available
Sodium bisulfate	7681-38-1	2-4	not listed	2.8 g/kg rat	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of dust may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Rinse with diluted ESC Neutralizer and wash exposed skin with warm water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## SECTION 6 - Accidental Release

Flush to sewer with plenty of water, if permitted. If not, soak up with dry absorbent material. Clean surface thoroughly to remove residual contamination. 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Solid	ODOR AND APPEARANCE Odorless, granular powder			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) Not applicable	VAPOUR DENSITY (Air = 1) Not applicable	EVAPORATION RATE (Water = 1) Not applicable	BOILING POINT Not applicable	FREEZING POINT Not applicable
pH 2.50 working strength	SPECIFIC GRAVITY Not applicable	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not applicable

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents, strong bases.INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.HAZARDOUS DECOMPOSITION PRODUCTS  
None known**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS

None known

IRRITANCY OF PRODUCT

None known

SENSITIZATION TO PRODUCT

None known

CARCINOGENICITY

Not listed by IARC,  
OSHA or ACGIH.

TERATOGENICITY

Not known

REPRODUCTIVE TOXICITY

Not known

MUTAGENICITY

Not known

SYNERGISTIC PRODUCTS

Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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**

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	<b>Photobrome Tablets</b>				
PRODUCT USE	Biological growth inhibitor	HMIS SCALE	HEALTH <b>3</b>	FLAMMABILITY <b>1</b>	REACTIVITY <b>2</b> PPE <b>J</b>
SUPPLIER	White Mountain Imaging	CATALOG # 3507, 3508, 3509, 3510			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	<b>603-648-2124</b>	EMERGENCY TEL #	<b>CHEMTREC 800-424-9300</b>		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
1-bromo-3chloro-5,5 dimethylhydantoin	16079-88-2	92.5	not listed	1390 mg/kg	not available
Sodium carbonate	497-19-8	4.5	not listed	4090 mg/kg	2300

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

**May be fatal if swallowed.** Highly corrosive to skin and eyes. Causes skin and eye damage. Irritating to nose and throat if inhaled. Probable mucous damage may contraindicate the use of the gastric valve.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with cold water for at least 15 minutes. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for at least 15 minutes. Seek medical attention immediately.

### INGESTION

**DO NOT** induce vomiting. Drink large amounts of water. Avoid alcohol. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air. If breathing is difficult administer oxygen. Seek medical attention immediately.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source. If heated to above 350°F, this product will undergo self-sustaining decomposition with dense noxious gases and large amounts of oxygen.

FLASHPOINT (°C) AND METHOD Not appropriate	UPPER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate	LOWER FLAMMABLE LIMIT (% BY VOLUME) Not appropriate	AUTOIGNITION TEMPERATURE (°C) Not appropriate
HAZARDOUS COMBUSTION PRODUCTS See "Hazardous Decomposition Products".	EXPLOSION DATA Not susceptible	SENSITIVITY TO IMPACT Not susceptible	SENSITIVITY TO STATIC DISCHARGE Not susceptible

## SECTION 6 - Accidental Release

Do not add water to spilled material. Sweep and scoop all spilled materials and place in a clean dry container for disposal. Do not use floor sweep compounds to clean up spills. Do not close containers containing wet or damp materials. Wear splash goggles, impervious gloves and apron. Keep product out of sewers. Consult with governmental regulatory agencies for appropriate disposal of this material

## SECTION 7 - Handling and Storage

**Strong oxidizing agent.** DO NOT ALLOW THIS PRODUCT TO COME INTO CONTACT WITH FIXER. Always add product to large quantities of water. Keep this product in the original closed container when not in use. Store in dry, well ventilated area away from heat or open flame.

**Photobrome Tablets**

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Solid	ODOR AND APPEARANCE Solid white tablet with bromine odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) Not applicable	VAPOUR DENSITY (Air = 1) >1	EVAPORATION RATE (Water = 1) < butyl acetate	BOILING POINT Not applicable	FREEZING POINT Not applicable
pH 4.5	SPECIFIC GRAVITY Not applicable	SOLUBILITY IN WATER (20°C) 0.15 g/100g	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not applicable

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS photographic fixer, ammonia, urea or any nitrogen containing materials.			
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?			
REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.				
HAZARDOUS DECOMPOSITION PRODUCTS Halogen containing gases, COx				

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS None known	IRRITANCY OF PRODUCT Eye: Corrosive Skin: Corrosive	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

Photobrome is a pesticide and toxic to fish and aquatic organisms. Do not discharge directly to any watercourse.

**SECTION 13 - Disposal Considerations**

Pesticide wastes are toxic. Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Oxidizing substances, Solid n.o.s. Class 5.1, UN 1479, PG II

**SECTION 15 - Regulatory Information**

WHMIS Classes E, C

**SECTION 16 - Other Information**

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **NEUTRA-SOL Liquid Drain Cleaner**

PRODUCT USE **Photographic solution**

HMIS SCALE HEALTH **2** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
3511

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-100	not listed	42.6 gm/kg	not available
Sodium chloride	7647-14-5	20-30	not listed	3000 mg/kg	42 g/m3/1h
Hydrochloric acid	7647-01-0	2-5	OSHA (C) 5 ppm	900 mg/kg	3124 ppm/1H

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

May cause burning or irritation of eyes and mucous membranes. Vapors or direct contact can cause skin irritation and or allergic reaction that may not be painful or visible. Harmful if swallowed. Ingestion can cause irritation and mouth, throat and stomach burns. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	Clear pale green liquid			Not available
VAPOUR PRESSURE (mmHg)	VAPOUR DENSITY (Air = 1)	EVAPORATION RATE (Water = 1)	BOILING POINT	FREEZING POINT
< 30 mm Hg	2 mm Hg	1	212°F	32°F
pH	SPECIFIC GRAVITY	SOLUBILITY IN WATER (20°C)	COEFF WATER OIL	PERCENT VOLATILE (BY VOLUME)
3.50	1.145	Complete	Not available	88^

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Concrete, alkalis, some metals, strong oxides
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	Sulfur dioxide, hydrogen chloride

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydrochloric acid 7.5 mg/m3 ceiling	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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: RQ for hydrochloric acid is 5000 lb  
 SARA Section 304, CERCLA Hazardous components  
 SARA Section 302,304,313 Hazardous components (None)  
 Class D2-B Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 Developer Activator**

PRODUCT USE **Photographic solution**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
**4900A**

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-100	not listed	42.6 gm/kg	not available
Sodium metabisulfite	7681-57-4	1-10	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
N-methyl-2-pyrrolidone	872-50-4	1-10	not listed	7200 mg/kg	not available
1-phenyl-3-pyrazolidinone	92-43-3	1-10	not listed	200 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. Will cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and/or allergic reaction.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

>200°F

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear light amber liquid with slight amine odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 5.90	SPECIFIC GRAVITY 1.010	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents, strong basesINCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.HAZARDOUS DECOMPOSITION PRODUCTS  
Sulfur dioxide, carbon monoxide, nitrogen oxide.**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS 1-phenyl-3-pyrazolidinone 0.2 mg/m3	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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**

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 Fixer Systems Cleaner**

PRODUCT USE **Photographic solutions** HMIS SCALE HEALTH **3** FLAMMABILITY **0** REACTIVITY **1** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4900FC**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	80-90	not listed	42.6 gm/kg	not available
Sodium hydroxide	1310-73-2	9-15	OSHA TWA 2 mg/m3	140 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Causes severe eye burns. Causes severe skin burns and may cause deep penetrating skin ulcers. If ingested will cause gastrointestinal burns with severe pain, nausea, vomiting, diarrhea and shock. Causes severe irritation of upper respiratory tract with coughing, burns and breathing difficulty.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Prolonged or repeated skin contact will cause dermatitis and possible ulcerations..

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water for 15 minutes. Seek medical advice immediately.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice immediately.

### INGESTION

**DO NOT** induce vomiting. Give 2-4 cups of milk or water. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air immediately. Seek medical attention.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source. Do not use direct water stream.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## SECTION 6 - Accidental Release

Pick up bottles or other containers and place in drums or other suitable containers. Neutralize with sodium sesquicarbonate. Absorb the residue with dry absorbent material. Flush to sewer with plenty of water, if permitted. 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, material 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. Neutralize with sodium bicarbonate.

## SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

## SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear colorless odorless liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 12.0	SPECIFIC GRAVITY 1.100	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

## SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS:  
Strong acids and oxidizing agents.

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Toxic fumes of sodium oxide & sodium peroxide

## SECTION 11 - Toxicological Information

EXPOSURE LIMITS Sodium hydroxide 2mg/M3 PEL TLV	IRRITANCY OF PRODUCT Eye: Corrosive Skin: Corrosive	SENSITIZATION TO PRODUCT Yes	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not listed

## SECTION 12 - Ecological Information

No data available

## SECTION 13 - Disposal Considerations

Dispose of this product in accordance with federal, state and/or local laws.

## SECTION 14 - Transportation Information

Sodium hydroxide Solution "Limited Quantity", Class 8, UN 1824, PG II

## SECTION 15 - Regulatory Information

SARA: RQ for sodium hydroxide is 1000 lb  
SARA Section 304, CERCLA Hazardous components  
SARA Section 302,304,313 Hazardous components (None)  
Class E under Canadian WHMIS regulations.

## SECTION 16 - Other Information

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 Developer Starter**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4900S**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-90	not listed	42.6 gm/kg	not available
Sodium bromide	7647-15-6	<15	not listed	3500 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. No inhalation hazard.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

Give large amounts of warm water. DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source. Sodium bromide emits toxic fumes under fire conditions.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
>200°F	Not appropriate	Not appropriate	Not appropriate
HAZARDOUS COMBUSTION PRODUCTS	EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE
See "Hazardous Decomposition Products".		Not susceptible	Not susceptible

## 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, material 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.

## T2 Developer Starter

### SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

### SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear odorless liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 8.00	SPECIFIC GRAVITY 1.090	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

### SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong acids

INCOMPATIBILITY WITH OTHER SUBSTANCES YES  NO  IF YES, WHICH ONES?

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Bromine (Br)

### SECTION 11 - Toxicological Information

EXPOSURE LIMITS Not known	IRRITANCY OF PRODUCT Eye: irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

### SECTION 12 - Ecological Information

No data available

### SECTION 13 - Disposal 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

No data available

### SECTION 16 - Other Information

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **Fixer Extender**

PRODUCT USE **Photographic solution**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
**4900FX**

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-70	not listed	42.6 gm/kg	not available
Sodium sulfite	7757-83-7	7-10	not listed	2825 mg/kg	not available
Sodium metabisulfite	7681-57-4	15-20	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Urea, 1allyl-2-thio-	109-57-9	<2	not listed	200 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear, colorless liquid with slight sulfur odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 6.20	SPECIFIC GRAVITY 1.270	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 50%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents, strong bases

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES  NO 

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Sulfur dioxide

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS

None known

IRRITANCY OF PRODUCT

None known

SENSITIZATION TO PRODUCT

None known

CARCINOGENICITY

Not listed by IARC,  
OSHA or ACGIH.

TERATOGENICITY

Not known

REPRODUCTIVE TOXICITY

Not known

MUTAGENICITY

Not known

SYNERGISTIC PRODUCTS

Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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**

No data available

**SECTION 16 - Other Information**

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	Fixer Regenerator Concentrate Part A									
PRODUCT USE	Photographic solution	HMIS SCALE	HEALTH	1	FLAMMABILITY	0	REACTIVITY	0	PPE	C
SUPPLIER	White Mountain Imaging	CATALOG #		4900RX						
ADDRESS	PO Box 216 Salisbury NH 03268									
PHONE NO.	603-648-2124		EMERGENCY TEL #	CHEMTREC 800-424-9300						

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	40-50	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	40-50	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	15-20	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	2-4	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible	Not susceptible

## 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, material 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.

**Fixer Regenerator Concentrate Part A****SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear colorless liquid with a slight ammonia odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 5.00	SPECIFIC GRAVITY 1.380	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 50%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents, strong bases

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES  NO 

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Ammonia

**SECTION 11 - Toxicological Information**EXPOSURE LIMITS  
Acetic acid: PEL 2.0 mg/m3IRRITANCY OF PRODUCT  
None knownSENSITIZATION TO PRODUCT  
None knownCARCINOGENICITY  
Not listed by IARC,  
OSHA or ACGIH.TERATOGENICITY  
Not knownREPRODUCTIVE TOXICITY  
Not knownMUTAGENICITY  
Not knownSYNERGISTIC PRODUCTS  
Not known**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Acetic acid 500 lb  
SARA Section 302,304,313 Hazardous components (None)  
Not a controlled product under Canadian WHMIS regulations.**SECTION 16 - Other Information**

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# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **Cine/Manual Fixer Working Strength**

PRODUCT USE **Photographic fixer** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4001MF, 4001DF, 4005MF, 4005DF**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	90-95	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	5-10	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	1-2	not listed	2825 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and/or allergic reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

Acidic solution. DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD **Not appropriate** UPPER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** LOWER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** AUTOIGNITION TEMPERATURE (°C) **Not appropriate**

HAZARDOUS COMBUSTION PRODUCTS **See "Hazardous Decomposition Products".** EXPLOSION DATA **Not susceptible** SENSITIVITY TO IMPACT **Not susceptible** SENSITIVITY TO STATIC DISCHARGE **Not susceptible**

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTIATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear colorless liquid with a slight ammonia odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 4.80	SPECIFIC GRAVITY 1.060	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 50%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents and bleaching agents

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES  NO 

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS CO<sub>2</sub>, CO**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS

None known

IRRITANCY OF PRODUCT

None known

SENSITIZATION TO PRODUCT

None known

CARCINOGENICITY

Not listed by IARC,  
OSHA or ACGIH.

TERATOGENICITY

Not known

REPRODUCTIVE TOXICITY

Not known

MUTAGENICITY

Not known

SYNERGISTIC PRODUCTS

Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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)

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	Cine/Manual Developers Working Strength				
PRODUCT USE	Photographic Developer	HMIS SCALE	HEALTH 1	FLAMMABILITY 0	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG #	4001MD, 4001DF, 4005MD, 4005DF		
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	Not	Not available
Potassium sulfite	10117-38-1	2-3	NIOSH TWA 5 mg/m3	4340 mg/kg	not available
Sodium sulfite	7757-83-7	1-2	not listed	2825 mg/kg	not available
Potassium hydroxide	1310-58-3	1-2	NIOSH (C) 2 mg/m3	365 mg/kg	not available
Hydroquinone	123-31-9	1-2	OSHA TWA 2 mg/m3	320 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Prolonged inhalation may be irritating and may cause headaches.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible	Not susceptible

## SECTION 6 - Accidental Release

For a small spill, wear protective clothing as specified in Section 8. Neutralize with sodium bicarbonate or sodium sulfite. Stop source of the leak. Wipe or absorb material with inert absorbent material.

## SECTION 7 - Handling and Storage

Do not consume food, drink or tobacco in area where contact with product may occur. Provide general exhaust in the storage area. Keep container tightly sealed. Avoid incompatible substances. Avoid unnecessary personal contact. Wash thoroughly after contact.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale yellow			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.40	SPECIFIC GRAVITY 1.060	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agentsINCOMPATIBILITY WITH OTHER SUBSTANCES YES  NO  IF YES, WHICH ONES?

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS CO<sub>2</sub>, CO**SECTION 11 - Toxicological Information**EXPOSURE LIMITS  
Hydroquinone 2 mg/M3IRRITANCY OF PRODUCT  
Skin: IrritantSENSITIZATION TO PRODUCT  
None knownCARCINOGENICITY  
Not listed by IARC,  
OSHA or ACGIH.TERATOGENICITY  
Not knownREPRODUCTIVE TOXICITY  
Not knownMUTAGENICITY  
Not knownSYNERGISTIC PRODUCTS  
Not known**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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: Threshold planning quantity (TPQ) for Hydroquinone 500 lb

Reportable quantity (RQ) for Hydroquinone 1 lb

SARA Section 304, CERCLA Hazardous components - Hydroquinone

SARA Section 302,304,313 Hazardous components (OSHA Subpart Z) Potassium hydroxide

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **Fixer Regenerator Concentrate Part B**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **0** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4900RX**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	70-80	not listed	42.6 gm/kg	not available
Aluminum sulfate	10043-01-3	20-30	ACGIH TWA 2mg/m3	6201 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**Fixer Regenerator Concentrate Part B****SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	Not normally required		
SKIN	Latex or nitrile	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	Clear, colorless, odorless liquid			Not available
VAPOUR PRESSURE (mmHg)	VAPOUR DENSITY (Air = 1)	EVAPORATION RATE (Water = 1)	BOILING POINT	FREEZING POINT
< 17 mm Hg	0.6 mm Hg	Not available	212°F	32°F
pH	SPECIFIC GRAVITY	SOLUBILITY IN WATER (20°C)	COEFF WATER OIL	PERCENT VOLATILE (BY VOLUME)
3.50	1.330	Complete	Not available	70%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY	IF NO, UNDER WHAT CONDITIONS			
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Strong reducing agents,			
INCOMPATIBILITY WITH OTHER SUBSTANCES	IF YES, WHICH ONES?			
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>				
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.			
HAZARDOUS DECOMPOSITION PRODUCTS	Ammonia, CO <sub>2</sub> , CO			

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
ACGIH TWA 2mg/m3	None known	None known	Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
Not known	Not known	Not known	Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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: Threshold planning quantity (TPQ) n/a  
 SARA: Reportable quantity (RQ) 5,000 lb  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **FR Developer Tank and Tray Cleaner 11-010**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **3** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4093DC**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	80-90	not listed	42.6 gm/kg	not available
Sulfuric acid	7664-93-9	3-7	OSHA TWA 1 mg/m <sup>3</sup>	2140 mg/kg	5.1 g/m <sup>3</sup> 2h
Sodium dichromate (VI)	10588-01-9	3-7	0.5 mg (Cr)/m <sup>3</sup>	50 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

May cause severe eye irritation, corneal burning and conjunctivitis. Severe permanent damage including blindness may occur. May cause skin burning and ulcerations. Can cause corrosive burns to mouth, throat, stomach and intestinal tract. Inhalation may be irritating to respiratory tract, ulceration of mucous membranes of nose and mouth.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Dichromates are skin sensitizers. Skin absorption of dichromates have been reported. Dichromates are primarily toxic to liver and kidneys. Lung irritation and pulmonary edema may occur. may cause ulceration and perforation of the nasal septum

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Give 1-2 glasses of water. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## SECTION 6 - Accidental Release

Neutralize with sodium bicarbonate or sodium sulfite. 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	red, orange, odorless solution			Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 0.1	SPECIFIC GRAVITY 1.119	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 60-100%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES  NO 

REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS Oxygen, Chromic oxide, Potassium chromate

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
Dichromate TWA 0.5 mg/m <sup>3</sup> Sulfuric acid TLV 1 mg/m <sup>3</sup>	Skin: Corrosive Eyes: Corrosive	Skin sensitizer	Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
None known	reproductive effect	may show effects	Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Corrosive liquid n.o.s. (sulfuric acid)

**SECTION 15 - Regulatory Information**

SARA Section 304, CERCLA hazardous components - Sulfuric acid, sodium dichromate  
 SARA Sections 302,304,313 Hazardous components (OSHA sub-part Z) sulfuric acid  
 California Prop 65 List: Sodium dichromate  
 WHMIS Class: D2-B, E,

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **MED-DENT Fixer Premixed**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **2502F, 2500DF**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85	not listed	Not	Not available
Ammonium thiosulfate	7783-18-8	<15	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<3	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	<2	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD **Not appropriate** UPPER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** LOWER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** AUTOIGNITION TEMPERATURE (°C) **Not appropriate**

HAZARDOUS COMBUSTION PRODUCTS **See "Hazardous Decomposition Products".** EXPLOSION DATA **Not susceptible** SENSITIVITY TO IMPACT **Not susceptible** SENSITIVITY TO STATIC DISCHARGE **Not susceptible**

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Light blue liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 4.40	SPECIFIC GRAVITY 1.085	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 90-85%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Mixing with developer will cause ammonia gas. This will dissipate quickly as pH is neutralized.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None known

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Acetic acid 10 ppm	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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, Acetic acid 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 regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **MED-DENT Developer Premixed**

PRODUCT USE **Photographic solution**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
**2501D, 2500DF**

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	Not	Not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Potassium hydroxide	1310-58-3	<3	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	RESPIRATORY	Not normally required
SKIN	Latex or nitrile	EYE	Splash goggles
OTHER	Eye wash station		

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale red odorless liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.20	SPECIFIC GRAVITY 1.060	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 90-95%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Mixing with fixer will cause ammonia gas. This will dissipate quickly as pH is neutralized.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None known

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydroquinone 2 mg/m3 Potassium hydroxide 2 mg/m3	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	Universal Fixer Replenisher Concentrate Part B				
PRODUCT USE	Photographic fixer	HMIS SCALE	HEALTH 1	FLAMMABILITY 0	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG # 22-310, 42-798-300, 44-602, 44-640, ADL-FIX, AX-FIX, BC44-640, GLO-FIX, PB-FIX, SE-FIX			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	70-80	not listed	Not	Not available
Aluminum sulfate	10043-01-3	20-30	ACGIH TWA 2mg/m3	6201 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or redness of eyes and mucous membranes. May cause mild skin irritation and /or allergic skin reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source. At elevated temperatures (>1400°F), sulfur oxides may form.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	RESPIRATORY	Not normally required
SKIN	Latex or nitrile	EYE	Splash goggles
OTHER	Eye wash station		

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	Clear, colorless to light yellow			Not available
VAPOUR PRESSURE (mmHg)	VAPOUR DENSITY (Air = 1)	EVAPORATION RATE (Water = 1)	BOILING POINT	FREEZING POINT
< 17 mm Hg	0.6 mm Hg	Not available	212°F	32°F
pH	SPECIFIC GRAVITY	SOLUBILITY IN WATER (20°C)	COEFF WATER OIL	PERCENT VOLATILE (BY VOLUME)
3.50	1.330	Complete	Not available	Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS
		Precipitates alkalis
INCOMPATIBILITY WITH OTHER SUBSTANCES	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.	
HAZARDOUS DECOMPOSITION PRODUCTS	None	

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
Ammonium sulfate 2 mg/M3	None known	None known	Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
Not known	Not known	Not known	Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Aluminum sulfate, Class 9, UN 3082, PG III for quantities greater than 5000 lb. Not applicable for quantities less than 5000 lb.

**SECTION 15 - Regulatory Information**

SARA: Reportable quantity (RQ) for Aluminum sulfate i 5000 lb

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

HMIS Scale: Health 1, Fire 0, Reactivity 0.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	Universal Fixer Replenisher Concentrate Part A				
PRODUCT USE	Photographic fixer	HMIS SCALE	HEALTH 1	FLAMMABILITY 0	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG # 22-310, 42-798-300, 44-602, 44-640, ADL-FIX, AX-FIX, BC44-640, GLO-FIX, PB-FIX, SE-FIX			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	40-50	not listed	Not	Not available
Ammonium thiosulfate	7783-18-8	40-50	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	5-10	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	5-10	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. may cause burning or redness of eyes and mucous membranes. may cause mild skin irritation and /or allergic skin reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	Not normally required		
SKIN	Latex or nitrile	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale yellow			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 5.20	SPECIFIC GRAVITY 1.320	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 85%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong reducing agents, strong bases			
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?			
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.			
HAZARDOUS DECOMPOSITION PRODUCTS	Ammonia			

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Acetic acid: PEL 2.0 mg/m3	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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, Acetic acid 500 lb  
 SARA Section 304, CERCLA Hazardous components - Ammonium Thiosulfate  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **HIC-ES, ECO-PLUS, FR-MRII Environmentally Safe Developer, Automatic X-ray Developer Concentrate Part 1**

PRODUCT USE Photographic solution HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER White Mountain Imaging CATALOG # 22-110, 41-DEV, 42-774, 44-504, 44-505, 44-506, 44-508, ADL-DEV, AX-DEV, GLO-DEV, PB-DEV, PMI-DEV, SE-DEV

ADDRESS PO Box 216 Salisbury NH 03268

PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-70	not listed	Not	Not available
Sodium metabisulfite	7681-57-4	5-10	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Hydroquinone	123-31-9	5-10	OSHA TWA 2 mg/m3	320 mg/kg	not available
Potassium hydroxide	1310-58-3	2-6	NIOSH (C) 2 mg/m3	365 mg/kg	not available
Sodium metaborates	12179-04-3	2-6	NIOSH TWA 1 mg/m3	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	RESPIRATORY	
SKIN	Latex or nitrile	EYE	Splash goggles
OTHER	Eye wash station		

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear, off-white to pale yellow liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.60	SPECIFIC GRAVITY 1.270	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong oxidizing agents and strong acids
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS None known	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **HIC-ES, ECO-PLUS, FR-MRII Environmentally Safe Developer Automatic X-Ray Developer Concentrate Part 2**

PRODUCT USE Photographic solution HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER White Mountain Imaging CATALOG # 22-110, 41-DEV, 42-774, 44-504, 44-505, 44-506, 44-508, ADL-DEV, AX-DEV, GLO-DEV, PB-DEV, PMI-DEV, SE-DEV

ADDRESS PO Box 216 Salisbury NH 03268

PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-75	not listed	not available	Not available
Gluteraldehyde bis-bisulfite	7420-89-5	20-40	not listed	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear, off-white to pale yellow liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 2.90	SPECIFIC GRAVITY 1.075	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents and strong bases

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO

REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS  
None

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS  
None known

IRRITANCY OF PRODUCT  
Skin: Irritant

SENSITIZATION TO PRODUCT  
None known

CARCINOGENICITY  
Not listed by IARC,  
OSHA or ACGIH.

TERATOGENICITY  
Not known

REPRODUCTIVE TOXICITY  
Not known

MUTAGENICITY  
Not known

SYNERGISTIC PRODUCTS  
Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Section 304, CERCLA Hazardous components - (None)

SARA Section 302,304,313 Hazardous components (None)

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **HIC-ES, ECO-PLUS, FR-MRII Environmentally Safe Developer Automatic X-Ray Developer - Working Strength**

PRODUCT USE Photographic developer HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER White Mountain Imaging CATALOG # 22-110, 41-DEV, 42-774, 44-504, 44-505, 44-506, 44-508, ADL-DEV, AX-DEV, GLO-DEV, PB-DEV, PMI-DEV, SE-DEV

ADDRESS PO Box 216 Salisbury NH 03268

PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	Not	Not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Potassium hydroxide	1310-58-3	<2	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale yellow liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.50	SPECIFIC GRAVITY 1.080	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong oxidizers and strong acids
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	Sulfur dioxide

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydroquinone 2.0 mg/m3 Potassium hydroxide 2.0	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	Universal Fixer Replenisher, Working Solution (RTU)				
PRODUCT USE	Photographic fixer	HMIS SCALE	HEALTH 1	FLAMMABILITY 0	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG # 22-310, 42-798-300, 44-602, 44-640, ADL-FIX, AX-FIX, BC44-640, GLO-FIX, PB-FIX, SE-FIX			
ADDRESS	PO Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	90-95	not listed	Not	Not available
Ammonium thiosulfate	7783-18-8	8-12	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<2	not listed	2825 mg/kg	not available
Aluminum sulfate	10043-01-3	<2	ACGIH TWA 2mg/m3	6201 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. may cause burning or irritation of eyes and mucous membranes. may cause mild skin irritation and /or allergic skin reaction. Prolonged inhalation of vapors may be irritating and may cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	RESPIRATORY	
SKIN	Latex or nitrile	EYE	Splash goggles
OTHER	Eye wash station		

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	Clear, colorless liquid with slight ammonia odor			Not available
VAPOUR PRESSURE (mmHg)	VAPOUR DENSITY (Air = 1)	EVAPORATION RATE (Water = 1)	BOILING POINT	FREEZING POINT
< 17 mm Hg	0.6 mm Hg	Not available	212°F	32°F
pH	SPECIFIC GRAVITY	SOLUBILITY IN WATER (20°C)	COEFF WATER OIL	PERCENT VOLATILE (BY VOLUME)
4.20	1.085	Complete	Not available	Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY	IF NO, UNDER WHAT CONDITIONS		
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	Strong reducing agents, strong bases.		
INCOMPATIBILITY WITH OTHER SUBSTANCES	IF YES, WHICH ONES?		
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>			
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.		
HAZARDOUS DECOMPOSITION PRODUCTS	Ammonia		

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
None known	Skin: Irritant	None known	Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
Not known	Not known	Not known	Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **VET-MED Fixer Premixed**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **999-2606-101**  
ADDRESS **PO Box 216 Salisbury NH 10550**  
PHONE NO. **914-667-2447** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85	not listed	Not	Not available
Ammonium thiosulfate	7783-18-8	<15	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<3	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	<2	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD **Not appropriate** UPPER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** LOWER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** AUTOIGNITION TEMPERATURE (°C) **Not appropriate**

HAZARDOUS COMBUSTION PRODUCTS **See "Hazardous Decomposition Products".** EXPLOSION DATA **Not susceptible** SENSITIVITY TO IMPACT **Not susceptible** SENSITIVITY TO STATIC DISCHARGE **Not susceptible**

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	RESPIRATORY	
SKIN	Latex or nitrile	EYE	Splash goggles
OTHER	Eye wash station		

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Light blue liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 4.40	SPECIFIC GRAVITY 1.085	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Mixing with developer will cause ammonia gas. This will dissipate quickly as pH is neutralized.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None known

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Acetic acid 10 ppm	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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, Acetic acid 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 regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **VET-MED Developer Premixed**

PRODUCT USE **Photographic solution**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
**999-2606-201**

ADDRESS **PO Box 216 Salisbury NH 10550**

PHONE NO. **914-667-2447**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	Not	Not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m <sup>3</sup>	320 mg/kg	not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m <sup>3</sup>	2000 mg/kg	not available
Potassium hydroxide	1310-58-3	<3	NIOSH (C) 2 mg/m <sup>3</sup>	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale red odorless liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.20	SPECIFIC GRAVITY 1.060	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Mixing with fixer will cause ammonia gas. This will dissipate quickly as pH is neutralized.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None known

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydroquinone 2 mg/m3 Potassium hydroxide 2 mg/m3	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **SR2 Single Part Rapid Developer Systems Cleaner**

PRODUCT USE **Photographic process cleaning solution** HMIS SCALE HEALTH **2** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4904SR**  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-70	not listed	42.6 gm/kg	not available
Sulfuric acid	7664-93-9	<30	OSHA TWA 1 mg/m <sup>3</sup>	2140 mg/kg	5.1 g/m <sup>3</sup> 2h
Proprietary Chemical	NJTSRN-DSC-S1	<10	Not established	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Danger! Corrosive! Eye Contact: May be slight to severe irritation, burns, loss of sight. Skin Contact: may cause irritation or burns on skin. Ingestion: May cause severe and permanent damage to the digestive tract. Inhalation: May cause severe irritation of the respiratory tract.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

Prolonged skin contact may cause dermatitis and ulceration.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Rinse with diluted sodium sulfite. Wash exposed skin with warm water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Extensive irrigation with water required. Get medical aid immediately.

### INGESTION

DO NOT induce vomiting. Give 1-2 cupfuls of milk or water to dilute. Seek medical attention immediately.

### INHALATION

If respiratory symptoms develop with exposure, move person to fresh air. If symptoms persist, seek medical advice.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

Use water spray to cool fire-exposed containers. Use carbon dioxide or dry chemical. Most foams will react with the material and release corrosive/toxic gases.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## SECTION 6 - Accidental Release

Neutralize with sodium sulfite. When neutralization is complete the solution will be white. 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	<small>Not normally required</small>		
SKIN	Wear nitrile gloves	EYE	Wear splash goggles	RESPIRATORY
OTHER	Eye wash station close to			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE red-orange solution, odorless			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH <1.0	SPECIFIC GRAVITY 1.30	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Keep away from strong reducing agents or strong bases
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	SO <sub>x</sub> , NO <sub>x</sub>

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Sulfuric acid, OSHA TWA 1 mg/m <sup>3</sup>	IRRITANCY OF PRODUCT Skin: Corrosive Eyes: Corrosive	SENSITIZATION TO PRODUCT May be a skin sensitizer	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available.

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and local regulations.

**SECTION 14 - Transportation Information**

Sulfuric Acid with less than 51% acid, Class 8, UN2796, PG II (Shipped as limited quantity)

**SECTION 15 - Regulatory Information**

Reportable Quantity: 1,000 lb. - sulfuric acid

**SECTION 16 - Other Information**

Canadian WHMIS Classification: E (Corrosive liquid)

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **Hypo Estimator Kit**

PRODUCT USE **X-Ray Processing** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging** CATALOG # **3564**

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	95-99	not listed	42.6 gm/kg	not available
Acetic acid	64-19-7	1-5	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h
Silver nitrate	7761-88-8	<1	not listed	50 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

This product presents a low hazard. May cause transient eye irritation. Expected to be a low hazard for skin and ingestion.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

Drink one or two glasses of water. Seek medical attention.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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. Store above 40°F in a dark bottle

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear liquid with a vinegar odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) 18 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) 0.4 acetate=1	BOILING POINT 212°F	FREEZING POINT 32°F
pH 2.4	SPECIFIC GRAVITY 1.01	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 99% approximately

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS None with the materials and products for which the product is designed to be used.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Acetic acid: PEL 2.0 mg/m3	IRRITANCY OF PRODUCT None known	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Not regulated for transport

**SECTION 15 - Regulatory Information**

SARA: Reportable quantity (RQ) Acetic acid 5000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **MED-DENT Fixer Premixed**

PRODUCT USE **Photographic solution** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **2502F, 2500DF**  
ADDRESS **PO Box 216 Salisbury NH 10550**  
PHONE NO. **914-667-2447** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85	not listed	Not	Not available
Ammonium thiosulfate	7783-18-8	<15	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<3	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	<2	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	Not normally required		
SKIN	Nitrile	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Light blue liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 4.40	SPECIFIC GRAVITY 1.085	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Mixing with developer will cause ammonia gas. This will dissipate quickly as pH is neutralized.			
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?			
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.			
HAZARDOUS DECOMPOSITION PRODUCTS	None known			

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Acetic acid 10 ppm	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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, Acetic acid 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 regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **MED-DENT Developer Premixed**

PRODUCT USE **Photographic solution**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #  
**2501D, 2500DF**

ADDRESS **PO Box 216 Salisbury NH 10550**

PHONE NO. **914-667-2447**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	Not	Not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Potassium hydroxide	1310-58-3	<3	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burning or irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not appropriate

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

Not susceptible

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## 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, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	RESPIRATORY	
SKIN	Latex or nitrile	EYE	Splash goggles
OTHER	Eye wash station		

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale red odorless liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.20	SPECIFIC GRAVITY 1.060	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Mixing with fixer will cause ammonia gas. This will dissipate quickly as pH is neutralized.
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	None known

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydroquinone 2 mg/m3 Potassium hydroxide 2 mg/m3	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **MDX™ Developer Concentrate**

PRODUCT USE **Photographic solution**

HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**

SUPPLIER **White Mountain Imaging**

CATALOG #

ADDRESS **PO Box 216 Salisbury NH 03268**

PHONE NO. **603-648-2124**

EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	175	not listed	42.6 gm/kg	not available
Potassium sulfite	10117-38-1	<9	not listed	4340 mg/kg	not available
Sodium sulfite	7757-83-7	<6	not listed	2825 mg/kg	not available
Hydroquinone	123-31-9	<3	OSHA TWA 2 mg/m3	320 mg/kg	not available
Sodium metaborates	12179-04-3	<2	NIOSH TWA 1 mg/m3	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of fumes may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation develops seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms develops.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

### FLASHPOINT (°C) AND METHOD

Not applicable

### UPPER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### LOWER FLAMMABLE LIMIT (% BY VOLUME)

Not appropriate

### AUTOIGNITION TEMPERATURE (°C)

Not appropriate

### HAZARDOUS COMBUSTION PRODUCTS

See "Hazardous Decomposition Products".

### EXPLOSION DATA

Not susceptible

### SENSITIVITY TO IMPACT

### SENSITIVITY TO STATIC DISCHARGE

Not susceptible

## SECTION 6 - Accidental Release

Neutralize with sodium sulfite. 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale yellow, odorless liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.50	SPECIFIC GRAVITY 1.200	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 90-95%

**SECTION 10 - Stability and Reactivity Data**CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
None with the materials and products which this product is designed for use with.INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.HAZARDOUS DECOMPOSITION PRODUCTS  
None known**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS

See section 2

IRRITANCY OF PRODUCT

None known

SENSITIZATION TO PRODUCT

None known

CARCINOGENICITY

Not listed by IARC,  
OSHA or ACGIH.

TERATOGENICITY

Not known

REPRODUCTIVE TOXICITY

Not known

MUTAGENICITY

Not known

SYNERGISTIC PRODUCTS

Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Not regulated for transport

**SECTION 15 - Regulatory Information**

SARA: Reportable quantity (RQ) for Hydroquinone 5000 lb., Potassium hydroxide 1000 lb.

SARA Section 304, CERCLA Hazardous components - (None)

SARA Section 302,304,313 Hazardous components (None)

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **MDX™ Fixer Concentrate**

PRODUCT USE **Photographic processing** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG #  
ADDRESS **PO Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	150	not listed	42.6 gm/kg	not available
Ammonium thiosulfate	7783-18-8	<35	not listed	2890 mg/kg	not available
Sodium sulfite	7757-83-7	<5	not listed	2825 mg/kg	not available
Acetic acid	64-19-7	<3	OSHA TWA 10 ppm	3310 mg/kg	5620 -1h
Aluminum sulfate	10043-01-3	<3	ACGIH TWA 2mg/m3	6201 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause irritation of eyes and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of fumes may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD **Not appropriate** UPPER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** LOWER FLAMMABLE LIMIT (% BY VOLUME) **Not appropriate** AUTOIGNITION TEMPERATURE (°C) **Not appropriate**

HAZARDOUS COMBUSTION PRODUCTS **See "Hazardous Decomposition Products".** EXPLOSION DATA **Not susceptible** SENSITIVITY TO IMPACT **Not susceptible** SENSITIVITY TO STATIC DISCHARGE **Not susceptible**

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	Not normally required		
SKIN	Latex or nitrile	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	Clear white liquid with a slight floral fragrance			Not available
VAPOUR PRESSURE (mmHg)	VAPOUR DENSITY (Air = 1)	EVAPORATION RATE (Water = 1)	BOILING POINT	FREEZING POINT
< 17 mm Hg	0.6 mm Hg	Not available	212°F	§ 32°F
pH	SPECIFIC GRAVITY	SOLUBILITY IN WATER (20°C)	COEFF WATER OIL	PERCENT VOLATILE (BY VOLUME)
4.80	1.110	Complete	Not available	Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY	IF NO, UNDER WHAT CONDITIONS			
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	None with the materials and products which this product is designed for use with.			
INCOMPATIBILITY WITH OTHER SUBSTANCES	IF YES, WHICH ONES?			
YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.			
HAZARDOUS DECOMPOSITION PRODUCTS	None known			

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
See section 2	None known	None known	Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
Not known	Not known	Not known	Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Not regulated for transport.

**SECTION 15 - Regulatory Information**

SARA: Reportable quantity (RQ) for Ammonium Thiosulfate 5000 lb, Acetic acid 500 lb  
 SARA Section 304, CERCLA Hazardous components - Ammonium Thiosulfate  
 SARA Section 302,304,313 Hazardous components (None)

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	RP-3 Automatic x-ray Developer Concentrate, Part A				
PRODUCT USE	Photographic solution	HMIS SCALE	HEALTH 2	FLAMMABILITY 0	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG #	4510D-RP3, 45200D-RP3		
ADDRESS	P.O. Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-65	Not established	42.6 gm/kg	not available
Potassium sulfite	10117-38-1	20-25	Not established	4340 mg/kg	not available
Hydroquinone	123-31-9	8-10	OSHA TWA 2 mg/m3	320 mg/kg	not available
Diethylene glycol (2-hydroxyethyl ether)	111-46-6	1-5	Not established	12565 mg/kg	130 mg/m <sup>3</sup> 2h
Potassium hydroxide	1310-58-3	2-6	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause irritation of eye and mucous membranes. May cause mild skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known.

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINGUISHION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible	Not susceptible

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Nitrile gloves

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Odorless, clear pale yellow color.			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 24 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT < 212°F	FREEZING POINT < 32°F
pH 10.7	SPECIFIC GRAVITY 1.28	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) 60-65%

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Oxidizing agents and strong acids
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon oxides, sulfur oxides

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS Hydroquinone 2.0 mg/m3 Potassium hydroxide 2.0	IRRITANCY OF PRODUCT Skin: Irritant Eyes: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

Estimated from components: Fish LC50: <1 mg/L, Daphnid EC50: <1 mg/L, Algal IC50: 1-10 mg/L, Waste treatment organisms EC50 10-100 mg/L, Potential Bioaccumulation: log Pow <1, COD ~330 g/L, BOD ~ 114 g/L.

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Not regulated for transportation by DOT and TDG

**SECTION 15 - Regulatory Information**

SARA: Reportable quantity (RQ) for Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
 SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Regulated as D2-B in Canada

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **T2 Automatic X-Ray Developers, Working Solution**

PRODUCT USE **Photographic developer** HMIS SCALE HEALTH **1** FLAMMABILITY **0** REACTIVITY **0** PPE **C**  
SUPPLIER **White Mountain Imaging** CATALOG # **4010D, 4010D-ADM, 4010D-AG, 4010D-DP, 4010D-EX, 4010D-LA, 4010D-MR, 4010D-MV, 4010D-UM, 4200D,**  
ADDRESS **P.O. Box 216 Salisbury NH 03268**  
PHONE NO. **603-648-2124** EMERGENCY TEL # **CHEMTREC 800-424-9300**

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	85-95	not listed	Not	Not available
Sodium metabisulfite	7681-57-4	<3	NIOSH TWA 5 mg/m3	2000 mg/kg	not available
Hydroquinone	123-31-9	<2	OSHA TWA 2 mg/m3	320 mg/kg	not available
Potassium hydroxide	1310-58-3	<2	NIOSH (C) 2 mg/m3	365 mg/kg	not available

## SECTION 3 - Hazards Identification

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

## T2 Automatic X-Ray Developers, Working Solution

### SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

### SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale yellow liquid	ODOR THRESHOLD Not available		
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 10.50	SPECIFIC GRAVITY 1.080	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

### SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong oxidizers and strong acids
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?
REACTIVITY, AND UNDER WHAT CONDITIONS	Stable under ambient pressure and temperature.
HAZARDOUS DECOMPOSITION PRODUCTS	Sulfur dioxide

### SECTION 11 - Toxicological Information

EXPOSURE LIMITS Hydroquinone 2.0 mg/m <sup>3</sup> Potassium hydroxide 2.0	IRRITANCY OF PRODUCT Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

### SECTION 12 - Ecological Information

No data available

### SECTION 13 - Disposal 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
SARA Section 304, CERCLA Hazardous components - (None)  
SARA Section 302,304,313 Hazardous components (None)  
Not a controlled product under Canadian WHMIS regulations.

### SECTION 16 - Other Information

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	<b>T2 Automatic X-Ray Developers Concentrate, Part 2</b>				
PRODUCT USE	Photographic solution	HMIS SCALE	HEALTH <b>1</b>	FLAMMABILITY <b>0</b>	REACTIVITY <b>0</b> PPE <b>C</b>
SUPPLIER	White Mountain Imaging	CATALOG # 4010D, 4010D-ADM, 4010D-AG, 4010D-DP, 4010D-EX, 4010D-LA, 4010D-MR, 4010D-MV, 4010D-UM, 4200D,			
ADDRESS	P.O. Box 216 Salisbury NH 03268				
PHONE NO.	<b>603-648-2124</b>	EMERGENCY TEL #	<b>CHEMTREC 800-424-9300</b>		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-75	not listed	Not	Not available
Gluteraldehyde bis-bisulfite	7420-89-5	20-40	not listed	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

**DO NOT** induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

OTHER Eye wash station

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Clear, off-white to pale yellow liquid			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT 212°F	FREEZING POINT 32°F
pH 2.90	SPECIFIC GRAVITY 1.075	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS  
Strong reducing agents and strong bases

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO

REACTIVITY, AND UNDER WHAT CONDITIONS  
Stable under ambient pressure and temperature.

HAZARDOUS DECOMPOSITION PRODUCTS  
None

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS  
None known

IRRITANCY OF PRODUCT  
Skin: Irritant

SENSITIZATION TO PRODUCT  
None known

CARCINOGENICITY  
Not listed by IARC,  
OSHA or ACGIH.

TERATOGENICITY  
Not known

REPRODUCTIVE TOXICITY  
Not known

MUTAGENICITY  
Not known

SYNERGISTIC PRODUCTS  
Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal 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 Section 304, CERCLA Hazardous components - (None)

SARA Section 302,304,313 Hazardous components (None)

Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME	RP-3 Automatic x-ray Developers Concentrate, Part C				
PRODUCT USE	Photographic solution	HMIS SCALE	HEALTH 1	FLAMMABILITY 0	REACTIVITY 0 PPE C
SUPPLIER	White Mountain Imaging	CATALOG #	4010D-RP3, 45200D-RP3		
ADDRESS	P.O. Box 216 Salisbury NH 03268				
PHONE NO.	603-648-2124	EMERGENCY TEL #	CHEMTREC 800-424-9300		

## SECTION 2 - Product and Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NUMBER	W/W %	Permissible Exposure Limit	LD50	LC50
Water	7732-18-5	60-75	not listed	Not available	Not available
Gluteraldehyde bis-bisulfite	7420-89-5	20-40	0.2 ppm OSHA PEL	not available	not available

## SECTION 3 - Hazards Identification

### EFFECTS OF ACUTE EXPOSURE TO PRODUCT

Harmful if swallowed. May cause burns and irritation of eye and mucous membranes. May cause skin irritation and or allergic reaction. Prolonged inhalation of vapors may be irritating and cause headaches.

### EFFECTS OF CHRONIC EXPOSURE TO PRODUCT

None known

## SECTION 4 - First Aid Measures

### SKIN CONTACT

Wash exposed skin thoroughly with soap and water. If irritation persists seek medical advice.

### EYE CONTACT

Flush eyes with water for 15 minutes. Seek medical advice if symptoms persist.

### INGESTION

DO NOT induce vomiting. Seek medical attention immediately.

### INHALATION

If inhaled, remove to fresh air.

## SECTION 5 - Fire Fighting Measures

FLAMMABILITY YES  NO  IF YES, UNDER WHAT CONDITIONS

### MEANS OF EXTINCTION

As needed to extinguish adjacent fire source.

FLASHPOINT (°C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (°C)
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 susceptible	Not susceptible

## 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 splash goggles, impervious gloves and apron.

## SECTION 7 - Handling and Storage

Read and follow the label, material 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.

**SECTION 8 - Exposure Controls**

VENTILATION	Good general ventilation.	<small>Not normally required</small>		
SKIN	Nitrile gloves	EYE	Splash goggles	RESPIRATORY
OTHER	Eye wash station			

**SECTION 9 - Physical and Chemical Properties**

PHYSICAL STATE Liquid	ODOR AND APPEARANCE Pale yellow liquid with slight odor			ODOR THRESHOLD Not available
VAPOUR PRESSURE (mmHg) < 17 mm Hg	VAPOUR DENSITY (Air = 1) 0.6 mm Hg	EVAPORATION RATE (Water = 1) Not available	BOILING POINT >212°F	FREEZING POINT <32°F
pH 2.45	SPECIFIC GRAVITY 1.155	SOLUBILITY IN WATER (20°C) Complete	COEFF WATER OIL Not available	PERCENT VOLATILE (BY VOLUME) Not available

**SECTION 10 - Stability and Reactivity Data**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS Strong reducing agents and strong bases			
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, WHICH ONES?			
REACTIVITY, AND UNDER WHAT CONDITIONS Stable under ambient pressure and temperature.				
HAZARDOUS DECOMPOSITION PRODUCTS None				

**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS None known	IRRITANCY OF PRODUCT Eye: Irritant Skin: Irritant	SENSITIZATION TO PRODUCT None known	CARCINOGENICITY Not listed by IARC, OSHA or ACGIH.
TERATOGENICITY Not known	REPRODUCTIVE TOXICITY Not known	MUTAGENICITY Not known	SYNERGISTIC PRODUCTS Not known

**SECTION 12 - Ecological Information**

No data available

**SECTION 13 - Disposal Considerations**

Dispose of this product in accordance with federal, state and/or local laws.

**SECTION 14 - Transportation Information**

Not regulated for transportation by DOT and TDG

**SECTION 15 - Regulatory Information**

SARA Section 304, CERCLA Hazardous components - (None)  
 SARA Section 302,304,313 Hazardous components (None)  
 Not a controlled product under Canadian WHMIS regulations.

**SECTION 16 - Other Information**

The information contained in this MSDS 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.