

# 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, 4200D-LA

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	42.6 gm/kg	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 EXTINGUISH

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 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.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME

**T2 Automatic X-Ray Developers Concentrate, Part 2**

PRODUCT USE Photographic solution

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, 4200D-LA

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	42.6 gm/kg	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 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 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 Developers Concentrate, Part 2****SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY Not normally required

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 (°C) ≥ 212°F	FREEZING POINT (°C) ≤ 32°F
pH 2.90	SPECIFIC GRAVITY 1.075	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

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES  NO  Strong reducing agents and strong bases

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

PRODUCT USE Photographic solution

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, 4200D-LA

ADDRESS P.O. Box 216 Salisbury NH 03268

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## 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 EXTINGUISH**

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 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 Developers Concentrate, Part 1****SECTION 8 - Exposure Controls**

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY Not normally required

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 (°C) ≥ 212°F	FREEZING POINT (°C) ≤ 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 CONDITIONSINCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO  Strong oxidizing agents and strong acids

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.

## T2 Automatic X-Ray Developers, Working Solution

### SECTION 8 - Exposure Controls

VENTILATION Good general ventilation.

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY Not normally required

OTHER Eye wash station

### SECTION 9 - Physical and Chemical Properties

PHYSICAL STATE	ODOR AND APPEARANCE			ODOR THRESHOLD
Liquid	Pale yellow liquid			Not available
VAPOUR PRESSURE (mmHg)	VAPOUR DENSITY (Air = 1)	EVAPORATION RATE(Water = 1)	BOILING POINT (°C)	FREEZING POINT(°C)
< 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)
10.50	1.080	Complete	Not available	85%

### SECTION 10 - Stability and Reactivity Data

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?  
YES  NO  Strong oxidizers and strong acids

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

HAZARDOUS DECOMPOSITION PRODUCTS Sulfur dioxide

### SECTION 11 - Toxicological Information

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
Hydroquinone 2.0 mg/m3 Potassium hydroxide 2.0	Eye: 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 Hydroquinone 5000 lb, Potassium hydroxide 1000 lb  
SARA Section 304, CERCLA Hazardous components - (None)  
SARA Section 302,304,313 Hazardous components (None)  
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PREPARED BY Envision Compliance Ltd.

PHONE NUMBER 905-760-1638

March 5, 2002

4010D, 4010D-ADM, 4010D-AG, 4010D-DP, 4010D-EX, 4010D-LA, 4010D-MR, 4010D-MV,  
4010D-UM, 4200D, 4200D-LA

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