

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078033397

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

078033371

# 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	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

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

**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 SO<sub>2</sub>**SECTION 11 - Toxicological Information**

EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
Hydroquinone 2 mg/M3	Skin: Irritant	None known	Not listed by IARC, NTP and OSHA.
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 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.

# SAFETY DATA SHEET

## SECTION 1 - General Information

PRODUCT NAME **Cine/Manual Developer Concentrate**

PRODUCT USE **Photographic Solution** HMIS SCALE: Health **1** Flamability **0** Reactivity **0** PPE **C**

SUPPLIER **White Mountain Imaging** CATALOG #:

ADDRESS **PO Box 216 Salisbury, NH 03268** 4001MD, 4001DF, 4005MD, 4005DF

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

## SECTION 2 - Hazards Identification

### Precautionary Statement.

Oral: Harmful if swallowed  
Skin: May cause mild skin irritation and/or allergic reaction.  
Eye: May cause eye irritation

### Classification

4  
1B  
2B

### WARNING



EFFECTS OF CRONIC EXPOSURE TO PRODUCT

None known.

## SECTION 3 - Product & Hazardous Ingredients Information

HAZARDOUS INGREDIENTS	CAS NO.	W/W %	Permissible Exposure Limit	LD50
Water	7732-18-5	70-80%	Not listed	42.6gm/kg
Sodium metabisulfite	7681-57-4	12%	NOIOSH TWA 5 mg/m3	2000 mg/kg
Potassium hydroxide	1310-58-3	8-12%	NIOSH @ 2mg/m3	365 mg/kg
Hydroquinone	123-31-9	1-5%	OSHA TWA 2 mg/m3	375 mg/kg

## 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

Flamability YES  NO  IF YES UNDER WHAT CONDITIONS

MEANS OF EXTINGUISHING

As needed to extinguish adjacent fire source.

FLASH POINT (C/F) AND METHOD	UPPER LIMIT (% BY VOLUME)	LOWER LIMIT (% BY VOLUME)	AUTOIGNITION TEMPERATURE (C/F)
Not appropriate	Not appropriate	Not appropriate	Not appropriate
HAZARDOUS COMBUSTION PRODUCTS	EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE
"See Hazardous Decomposition Products"	Not 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, 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.

Cine/Manual Developer

CAT No.

4001MD, 4001DF, 4005MD, 4005DF

**SECTION 8 - Exposure Controls**

VENTILLATION **Good general ventilation**  
 SKIN **Latex or nitrile** EYE: **Splash goggles** RESPIRATORY **Not normally required**  
 OTHER **Eye wash station**

**SECTION 9 - Physical & Chemical Properties**

PHYSICAL STATE	ODOR & APPEARANCE			ODOR THRESHOLD
Liquid	Light yellow, odorless solution.			Not available
VAPOR PRESSURE (mm-Hg)	VAPOR 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	COEFF WATER/OIL	%VOLATILE (BY VOLUME)
10.20	1.235	Complete	N/A	80-90% as water

**SECTION 10 - Stability & Reactivity Data**

CHEMICAL STABILITY YES  NO  IF NO, UNDER WHAT CONDITIONS

INCOMPATIBLE WITH OTHER SUBSTANCES YES  NO  IF YES, WHICH ONES?  
**Strong oxidizing agent and strong acids.**

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
None known	Skin: Irritant	None known	Not listed by IARC, OSHA, or ACGIH
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
None Known	Not Known	None known	None 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 SDS is furnished without warranty of any kind. The user should consider this data a supplement to other data gathered and must make an independent determination of suitability from this and other sources to assure proper use and disposal of this material and the health and safety of employees and customers.

PREPARED BY

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PHONE NO

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Date: 5/20/2015

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