

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 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
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 EXTINGUISHMENT

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

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.

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 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	85-90	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 EXTINGUISHMENT

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

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

VENTIATION 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 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 (°C) ≥ 212°F	FREEZING POINT (°C) ≤ 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 DataCHEMICAL STABILITY YES NO IF NO, UNDER WHAT CONDITIONSINCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?
YES NO Strong reducing agents

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

HAZARDOUS DECOMPOSITION PRODUCTS SO₂**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.

Cine/Manual Developers Working Strength**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 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 (°C) ≥ 212°F	FREEZING POINT (°C) ≤ 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 DataCHEMICAL STABILITY YES NO IF NO, UNDER WHAT CONDITIONSINCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?
YES NO Strong reducing agents

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

HAZARDOUS DECOMPOSITION PRODUCTS CO₂, CO**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, 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

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