

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

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	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
< 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)
10.40	1.060	Complete	Not available	85%

SECTION 10 - Stability and Reactivity DataCHEMICAL 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 CO₂, 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.