

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 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 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 Not normally required

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 DataCHEMICAL STABILITY YES NO IF NO, UNDER WHAT CONDITIONS
Strong reducing agents, bromide-based water cleaners

INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?

YES NO

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

HAZARDOUS DECOMPOSITION PRODUCTS SO₂**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.