

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 EXTINCTION

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

Not susceptible

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.

SECTION 8 - Exposure Controls

VENTILATION Good general ventilation. Not normally required

SKIN Latex or nitrile

EYE Splash goggles

RESPIRATORY

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 Data

CHEMICAL 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.