

# Material Safety Data Sheet

## MES Limited Microfilm Fixer

### Section 1 - Chemical Product and Company Identification

**MSDS Name:** MES Limited Microfilm Fixer

**Company Identification:**

MES Limited  
200 Amber Street  
Markham, ON L3R 3J8

**For information, call:** (905) 475-9263

### Section 2 – Hazardous Ingredients

CAS#	Chemical Name	Percent
7732-18-5	Water	>67%
7732-18-8	Ammonium Thiosulfate	30%
7757-83-7	Sodium Sulfite	2%

**Hazard Symbols:** XI

**Risk Phrases:** 36/37/38

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

##### MAY BE HARMFUL IF SWALLOWED

HMIS Hazard Ratings:

Health - 1, Flammability - 1, Reactivity - 0, Personal Protection - B

NFPA Hazard Ratings:

Health - 2, Flammability - 1, Reactivity (Stability) - 0

**NOTE:** HMIS and NFPA hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. The personal protection index is only intended for general guidance on personal protection equipment (PPE) that is suitable for the potential hazards of the material.

PPE (e.g., respirators) may not be needed if engineering controls (e.g., local ventilation) are adequate. An asterisk (\*), in the HMIS health field, designates potential chronic or target organ hazards. To adequately address safe handling, ALL information in this MSDS must be considered.

## Section 4 - First Aid Measures

**Inhalation:** If symptomatic, move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid if symptoms occur.

**Skin:** Wash with soap and water. Get medical attention if symptoms occur.

**Ingestion:** Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 glasses of milk or water.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches that lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## Section 7 - Handling and Storage

**Personal Precautionary Measures:** Avoid breathing mist or vapor. Avoid contact with eyes and prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling.

**Prevention of Fire and Explosion:** No special precautionary measures should be needed under anticipated conditions of use.

**Storage:** Do not store in direct sunlight. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

### Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethylenediamine tetraacetic acid	None listed	None listed	None listed

### Personal Protective Equipment

**Eyes:** It is a good industrial hygiene practice to minimize eye contact. Wear safety glasses with side shields (or goggles).

**Skin:** It is a good industrial hygiene practice to minimize skin contact. For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** None should be needed. A respirator should be worn if hazardous decomposition products are likely to be or have been released.

## Section 9 - Physical and Chemical Properties

**Physical State:** liquid

**Appearance:** colorless, clear

**Odor:** odorless

**pH:** 8.0.

**Vapor Pressure:** approx 17.

**Vapor Density:** approx 0.6.

**Evaporation Rate:** n/a.

**Viscosity:** Not available.

**Boiling Point:** Not available.

**Freezing/Melting Point:** Not available

**Auto ignition Temperature:** Not applicable.

**Flash Point:** Not applicable.

**Decomposition Temperature:** Not available

**NFPA Rating:** (estimated) Health - 1, Flammability - 1, Reactivity - 0

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**Solubility:** Complete.

**Specific Gravity/Density:** 1.32

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** excess heat, light

**Incompatibilities with Other Materials:** Mineral Acids, and Metal Alkali

**Hazardous Decomposition Products:** Sulphur Dioxide, Ammonia

**Hazardous Polymerization:** Will not occur.

## Section 11 - Toxicological Information

### Effects of Exposure:

**Inhalation:** Expected to be a low hazard for usual industrial or commercial handling by trained personnel. In contact with strong acids or if heated, sulphites may liberate sulphur dioxide gas. Sulphur dioxide gas is irritating to the respiratory tract.

**Eyes:** No specific hazard known. May cause transient irritation.

**Skin:** This material has a low potential to cause allergic skin reactions.

**Ingestion:** May be harmful if swallowed. Some asthmatics or sulphite-sensitive individuals may experience wheezing, chest tightness, stomach upset, hives, faintness, weakness and diarrhea.

## Section 12 - Ecological Information

The following properties are ESTIMATED from the components of the preparations.

### Potential Toxicity

Fish LC50 mg/l:	> 100
Daphnid EC50 mg/l:	> 100
Algal IC50 mg/l:	Not available

Organics Readily Degradable                      No

### Potential Toxicity

Waste treatment microorganisms EC50 (mg/l):	> 100
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After dilution with a large amount of water, followed by secondary waste treatment, this material is not expected to cause adverse environmental effects.

## Section 13 - Disposal Considerations

Discharge, treatment, or disposal may be subject to federal, provincial, or municipal laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.

## Section 14 - Transport Information

**General Shipping Information, call: (905) 475-9263.**

## Section 15 - Regulatory Information

**WHMIS (Canada) Status: Non-controlled**

## Section 16 - Additional Information

**MSDS Creation Date: FEB-2003**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.*