

**MATERIAL SAFETY DATA SHEET**  
**FRC - DIVISION OF CINE MAGNETICS INC.**

**SECTION I**

**PRODUCT NAME:** DENT-X EXCEL X-RAY FIXER

**CATALOGUE NUMBER(S):** 999-2602-001, 999-2602-301

**MANUFACTURER:** FRC - Division of Cine Magnetics Inc.

524 South Columbus Avenue Mt. Vernon, NY 10550

**PRODUCT INFORMATION:** (914)-667-1002

**PREPARATION DATE OF MSDS:** 6/1/92

**EXPOSURE or ACCIDENT EMERGENCY:** CHEMTREC (800) 424-9300

**SECTION II: COMPONENT AND REGULATORY INFORMATION**

COMPONENTS(REGULATORY LISTS)	CAS REG #	OSHA PEL	ACGIH TLV	%WT
Water	7732-18-5	N/A	N/A	60-100
Ammonium Thiosulfate (A)	7783-18-8	N/A	N/A	7-13
Sodium Sulfite	7757-83-7	N/A	N/A	3-7
Acetic Acid (A)	64-19-7	(TWA) 10 ppm	(TWA) 10 ppm	3-7

**REGULATORY LISTS FOR APPLICABLE COMPONENTS**

- A - CERCLA HAZARDOUS SUBSTANCE LIST
- B - SARA TITLE III EXTREMELY HAZARDOUS SUBSTANCE LIST (SECTION 302)
- C - SARA TITLE III TOXIC CHEMICAL SUBSTANCE LIST (SECTION 313)
- D - CALIFORNIA (PROP. 65) LIST OF CANCER CAUSING SUBSTANCES
- E - RESOURCE CONSERVATION AND RECOVERY ACT HAZARDOUS WASTE LIST

**DOT SHIPPING NAME:** Non-Hazardous Aqueous Solution

**HAZARD CLASS:** Not Applicable

**ID #:** Not Applicable

**NFPA RATING:** HEALTH - 2    FLAMMABILITY - 0    REACTIVITY - 0

**SECTION III: PHYSICAL DATA**

**pH:** 4.6    **SPECIFIC GRAVITY:** 1.10    **SOLUBILITY IN WATER:** Completely soluble.  
**BOILING POINT:** Approx. 212 F    **EVAPORATION RATE:** Not Available  
**VOLATILE ORGANIC CONTENT:** 0.15 Lbs/Gallon    **VAPOR PRESSURE:** Not Available  
**%VOLATILITY (as Water):** 60-100 as Water.    **VAPOR DENSITY:** Not Available  
**APPEARANCE AND ODOR:** Clear, colorless solution, vinegar odor

**SECTION IV: FIRE AND EXPLOSION DATA**

**FLASH POINT (METHOD USED):** None

**FLAMMABLE LIMITS - LOWER EXPOSURE LIMIT:** N/A    **UPPER EXPOSURE LIMIT:** N/A

**EXTINGUISHING MEDIA:** Any applicable to the primary cause of fire.

**SPECIAL FIREFIGHTING PROCEDURES:** Evacuate personnel to a safe area. Firefighters should wear self-contained breathing apparatus.

**UNUSUAL FIRE HAZARDS:** Excessive heat may release ammonia vapors.

**SECTION V: REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID:** None

**INCOMPATIBILITY (AVOID):** Avoid strong acids and strong alkalis.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Sulfur Dioxide and Ammonia

**POLYMERIZATION:** Does not polymerize.

**CONDITIONS TO AVOID:** None

\* CEILING VALUE;    (TWA) - TIME WEIGHTED AVERAGE;    N/A - NOT APPLICABLE

Page 1/2

## SECTION VI: SPILL AND WASTE DISPOSAL INFORMATION

### \*\*\*\* SPILLS \*\*\*\*

Use appropriate protective equipment. Dike the spill and soak up with absorbant material. Prevent liquid from entering sewers or waterways. Dispose of in accordance with Federal, State, and Local Regulations.

### \*\*\*\* WASTE DISPOSAL \*\*\*\*

Discharge to sewer requires the approval of permitting authority and may require pretreatment. Treatment, storage, transportation, and disposal must be in accordance with Federal, State, and Local Regulations.

## SECTION VII: HEALTH HAZARDS AND FIRST AID INFORMATION

### \*\*\*\* HEALTH HAZARDS \*\*\*\*

**EYE CONTACT:** Irritation or burning possible if contacted. High concentrations of acetic acid vapors can cause excess blinking, tear production, and eye discomfort.

**SKIN CONTACT:** Irritation and burning possible.

**INGESTION:** Acetic acid can cause burning to mouth, throat esophagus, abdominal pain, nausea, vomiting, shock state, and collapse. Sodium Sulfite may cause circulatory disturbances and central nervous system damage.

**INHALATION:** If heated highly irritating ammonia vapors will irritate the throat. Inhaling high concentrations of acetic acid causes irritation, coughing, chest pain and pain and breathing difficulty.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Sulfites may cause allergic reactions in some asthmatics.

**CARCINOGENICITY:** None of the chemicals used in this product are listed on NTP, IARC, or OSHA listings of human carcinogens.

### \*\*\*\* FIRST AID \*\*\*\*

**EYE:** Flush with water for 15 minutes. Obtain medical attention.

**SKIN:** Remove contaminated clothing. Wash the exposed area thoroughly with water. Contact a physician. Wash contaminated clothing before re-use.

**INGESTION:** If conscious, give 2 glasses of water. Do not induce vomiting. Obtain prompt medical attention.

**INHALATION:** Remove to fresh air. If adverse symptoms develop, contact a physician.

## SECTION VIII: SPECIAL PROTECTION INFORMATION

**VENTILATION:** Ten room volumes per hour is recommended under normal conditions.

**PROTECTIVE EQUIPMENT RECOMMENDED:** Chemical splash goggles, latex or neoprene gloves, lab coat, and eye wash station. For poorly ventilated areas a NIOSH cartridge respirator is recommended.

## SECTION IX: SPECIAL PRECAUTIONS

**STORAGE and HANDLING PRECAUTIONS:** Store in a well ventilated area. Keep container tightly capped when not in use. Do not store food, drink, or tobacco in areas where contamination could occur with this product.

**OTHER PRECAUTIONS:** Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not take internally. Keep out of reach of children.