

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

SECTION I

PRODUCT NAME: DENT-X EXCEL X-RAY DEVELOPER
CATALOGUE NUMBER(S): 999-2602-001, 999-2602-201
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
Sodium Sulfite	7757-83-7	N/A	N/A	7-13
Potassium Hydroxide (A)	1310-58-3	N/A	(TWA) 2 mg/m ³	1-5
** Hydroquinone (B,C)	123-31-9	(TWA) 2 mg/m ³	(TWA) 2 mg/m ³	1-5
Boric Acid	10043-35-3	N/A	N/A	1-5

** COMPONENT SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 (40 CFR 372).

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: 10.2 **SPECIFIC GRAVITY:** 1.12 **SOLUBILITY IN WATER:** Completely soluble.
BOILING POINT: Approx. 212 F **EVAPORATION RATE:** Not Available
VOLATILE ORGANIC CONTENT: 0.02 Lbs/Gallon **VAPOR PRESSURE:** Not Available
%VOLATILITY (as Water): 60-100 as Water. **VAPOR DENSITY:** Not Available
APPEARANCE AND ODOR: Red solution, aldehyde 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 sulfur dioxide vapors.

SECTION V: REACTIVITY

STABILITY: Stable **CONDITIONS TO AVOID:** None
INCOMPATIBILITY (AVOID): Avoid strong acids and oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur Dioxide
POLYMERIZATION: Does not polymerize. **CONDITIONS TO AVOID:** None

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 may occur with possible tissue destruction. Possible discoloration of the conjunctiva.

SKIN CONTACT: Reddening, swelling or burning may occur. Hydroquinone has been known to cause dermatitis.

INGESTION: Corrosion of tissue may occur. Nausea, vomiting, or abdominal pain possible. Large doses of sulfite may cause circulatory disturbances and central nervous system depression.

INHALATION: Concentrated mists may irritate or damage respiratory tract and lungs. May cause nausea or vomiting.

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. Check for corneal injury.

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.

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

SECTION VI: SPILL AND WASTE DISPOSAL INFORMATION

**** SPILLS ****

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**** WASTE DISPOSAL ****

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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.

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