

MATERIAL SAFETY DATA SHEET

SECTION I

COMPONENT NAME: DENT-X IFP FIXER
CATALOGUE NUMBER(S): 999-2604-300
MANUFACTURER: *fr Chemical, Inc.*

524 South Columbus Avenue Mt. Vernon, NY 10550

PRODUCT INFORMATION: (914)-667-2447

EFFECTIVE DATE OF MSDS: 1/4/00

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 | 30-60 |
| Ammonium Thiosulfate | 7783-18-8 | N/A | N/A | 30-60 |
| Sodium Sulfite | 7757-83-7 | N/A | N/A | 1-5 |
| Acetic Acid (A) | 64-19-7 | (TWA) 10 ppm | (TWA) 10 ppm | 5-10 |
| Boric Acid | 10043-35-3 | N/A | N/A | 1-5 |

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

NFPA RATING: HEALTH - 1 FLAMMABILITY - 0 REACTIVITY - 0

SECTION III: PHYSICAL DATA

pH: 5.3 SPECIFIC GRAVITY: 1.14 SOLUBILITY IN WATER: Completely soluble.
BOILING POINT: Approx. 212 F EVAPORATION RATE: Not Available
VOLATILE ORGANIC CONTENT: 0.10 Lbs/Gallon VAPOR PRESSURE: Not Available
%VOLATILITY (as Water): 40-70 VAPOR DENSITY: Not Available
APPEARANCE AND ODOR: Light-yellow 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 ******

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 sodium 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: Air-Borne Concentrations of applicable components should not exceed the PEL or TLV for applicable chemicals listed in Section II.

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

SECTION I

COMPONENT NAME: DENT-X IFP DEVELOPER
CATALOGUE NUMBER(S): 999-2604-200
MANUFACTURER: *fr Chemical, Inc.*

524 South Columbus Avenue Mt. Vernon, NY 10550

PRODUCT INFORMATION: (914)-667-2447

EFFECTIVE DATE OF MSDS: 1/4/00

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 |
| ** Hydroquinone (B,C) | 123-31-9 | (TWA) 2 mg/m ³ | (TWA) 2 mg/m ³ | 1-5 |
| Sodium Hydroxide (A) | 1310-73-2 | (TWA) 2 mg/m ³ | (TWA) 2 mg/m ³ | 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

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

SECTION III: PHYSICAL DATA

pH: 13.4 SPECIFIC GRAVITY: 1.13 SOLUBILITY IN WATER: Completely soluble.
BOILING POINT: Approx. 212 F EVAPORATION RATE: Not Available
VOLATILE ORGANIC CONTENT: 0 Lbs/Gallon VAPOR PRESSURE: Not Available
%VOLATILITY (as Water): 60-100 as Water. VAPOR DENSITY: Not Available
APPEARANCE AND ODOR: Light-yellow solution

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

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

SECTION VI: SPILL AND WASTE DISPOSAL INFORMATION

****** SPILLS ******

Use appropriate protective equipment. Sweep the spill into a waste container. Prevent powder 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: May cause irritation and damage to tissue.

SKIN CONTACT: May cause irritation.

INGESTION: May cause irritation or corrosion to digestive tract.

INHALATION: May cause irritation to nasal mucous membranes or respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: No medical conditions known to be aggravated by exposure to this product.

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

****** FIRST AID ******

EYE: Irrigate with water for 15 minutes. Contact a physician.

SKIN: Wash with copious amounts of water and soap for at least 15 minutes.

INGESTION: Administer 2-3 glasses of water or milk. Never administer anything to an unconscious person. Contact a physician immediately.

INHALATION: Remove victim to fresh air. If adverse symptoms persist, contact a physician.

SECTION VIII: SPECIAL PROTECTION INFORMATION

VENTILATION: Air-Borne Concentrations of applicable components should not exceed the PEL or TLV for applicable chemicals listed in Section II.

PROTECTIVE EQUIPMENT RECOMMENDED: Chemical splash goggles, latex or neoprene gloves, lab coat, dust mask, 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 dusts. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Do not take internally. Keep out of reach of children.
