

# MATERIAL SAFETY DATA SHEET

SECTION I

**COMPONENT NAME:** LogEsol DEVELOPER SYSTEM CLEANER PART A

**CATALOGUE NUMBER(S):** L80600000—A

**MANUFACTURER:** *fr Chemical, Inc.*

524 South Columbus Avenue Mt. Vernon, NY 10550

**PRODUCT INFORMATION:** (914)-667-2447

**EFFECTIVE DATE OF MSDS:** 1/5/98

**EXPOSURE or ACCIDENT EMERGENCY:** CHENTREC (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 Dichromate (A,D)	10588-01-9	N/A	(TWA)0.05mg/m3	30-60

### 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 - 4 FLAMMABILITY - 0 REACTIVITY - 1

## SECTION III: PHYSICAL DATA

pH: 4.1      **SPECIFIC GRAVITY:** 1.4      **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:** *Red, orange solution, odorless*

## 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 oxygen vapors.*

## SECTION V: REACTIVITY

**STABILITY:** *Stable*      **CONDITIONS TO AVOID:** *None*  
**INCOMPATIBILITY (AVOID):** *Avoid reducing agents.*  
**HAZARDOUS DECOMPOSITION PRODUCTS:** *Oxygen, Chromic Oxide, Potassium Chromate*  
**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:** Severe irritation, and conjunctivitis.

**SKIN CONTACT:** Can cause irritation. Contact with breaks in the skin can cause chrome sores. Dichromates are skin sensitizers. Skin absorption of dichromates has been reported.

**INGESTION:** Can be harmful or fatal. Toxic effects may not appear right away. A systemic poison. Dichromates are toxic primarily to kidneys and liver.

**INHALATION:** Inhalation of mists can cause ulceration and perforation of the nasal septum, as well as irritation to the respiratory system.

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

**CARCINOGENICITY:** This formulation contains chromium which is listed on NTP, IARC, and OSHA listings of human carcinogens.

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

**EYE:** Flush with plenty of water for at least 15 minutes and obtain prompt medical attention.

**SKIN:** Wash with plenty of water. Remove contaminated clothing.

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

**INHALATION:** Remove to fresh air. Obtain medical attention.

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.