

MATERIAL SAFETY DATA SHEET

SECTION I

COMPONENT NAME: LogEsol FIXER SYSTEM CLEANER

CATALOGUE NUMBER(S): L80600004

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: CHEMTREC (800) 424-9300

SECTION II: COMPONENT AND REGULATORY INFORMATION

COMPONENTS(REGULATORY LISTS)	CAS REG #	OSHA PEL	ACGIH TLV	%WT
<i>Water</i>	<i>7732-18-5</i>	<i>N/A</i>	<i>N/A</i>	<i>60-100</i>
<i>Sodium Hydroxide (A)</i>	<i>1310-73 -2</i>	<i>N/A</i>	<i>(TWA) 2 mg/m3*</i>	<i>45-55</i>

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 — 3 FLAMMABILITY — 0 REACTIVITY — 0

SECTION III: PHYSICAL DATA

pH: *14.0* **SPECIFIC GRAVITY:** *1.43* **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 Availabl*
APPEARANCE AND ODOR: *Clear colorless odorless 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:

SECTION V: REACTIVITY

STABILITY: *Stable*

CONDITIONS TO AVOID: *None*

INCOMPATIBILITY (AVOID): *Avoid strong acids*

HAZARDOUS DECOMPOSITION PRODUCTS: *None*

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: Burning may occur with possible tissue destruction.

SKIN CONTACT: Reddening, swelling, or burning may occur.

INGESTION: Corrosion of tissue may occur. Nausea, vomiting, or abdominal pain possible.

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

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: Flush with water for 15 minutes. Obtain prompt medical attention. Check for cornea 1 injury.

SKIN: Remove contaminated clothing. Wash the exposed area thoroughly with water. Contact a physician.

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.