

MATERIAL SAFETY DATA SHEET

E F Clean & Flush

Part# 487

SECTION 1: General Information		
Manufacturer/Supplier Name: EF Products, LP	Phone :	1-888-396-0422
1860 Crown Drive, Suite 1400	Emergency :	CHEMTRAC 1-800-424-9300
Dallas, TX 75234	Date prepared:	12/06/2006

SECTION II: COMPONENT INFORMATION		
Chemical Name	CAS REG NO.	PERCENTAGE (%)
Proprietary Blend	Proprietary	

SECTION III: POTENTIAL HEALTH EFFECTS FROM OVEREXPOSURE	
EYE :	Irritating to eyes, but does not damage tissue.
INHALATION :	If sprayed or misted may cause chemical pneumonia, headache, dizziness, etc.
INGESTION :	Low toxicity on ingestion, has laxative effect.
SKIN :	Minimally irritating. Prolonged contact can cause dermatitis.

SECTION IV : FIRST AID PROCEDURES	
EYE :	Copious warm water flush for 15 minutes. If irritation persists seek physician assessment.
SKIN:	Wash skin with soap and water. Remove contaminated clothing-Launder or dry clean clothes before reuse. Dispose of leather articles. If product is injected into or under the skin individual should be treated by the physician as a surgical emergency.
INHALATION :	Evacuate to a safe area with plenty of fresh air. Apply cardiopulmonary resuscitation if required. Administer oxygen if available. If resuscitation required, seek medical aid immediately.
INGESTION :	DO NOT induce vomiting. Drink 2-3 cups of mild or water lots of fluids. Call a physician immediately.

SECTION V : FIRE FIGHTING PROCEDURES	
This product is: Combustible	
FLASH POINT °F= OPEN CUP	275 LOWER EXPLOSIVE LIMIT
UNUSUAL HAZARDS :	Burning fluid may evolve irritating/noxious fumes, smoke, carbon monoxide, and minor amounts of sulfur and nitrogen.
EXTINGUISHING AGENTS :	Agents approved for Class B fire hazards, such as dry chemical, carbon dioxide, halogenated agents, foam, steam or water fog. Firefighters should use NIOSH/MNSA approved self-contained breathing apparatus

PROTECTIVE CLOTHING :	and full protective gear.
FIREFIGHTING PROCEDURES :	If safe to do so, shut off source of spill. Cover with extinguishing agent. Use water spray to cool fire exposed containers and as a protective screen. DO NOT point solid water stream directly into burning oil to avoid spreading of fire. Wear self-contained breathing apparatus.

SECTION VI : SPILL OR LEAK HANDLING PROCEDURES

PERSONAL PROTECTION :	Wear protective clothing including splash proof goggles, rubber gloves and rubber overshoes. Remove all contaminated clothing promptly.
PROCEDURES:	Floor may be slippery, use care to avoid falling. Contain spill immediately with inert material (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.	

SECTION VII : HANDLING AND STORAGE

Avoid contact with eyes, skin and clothing.

Ensure that containers are properly secured before moving.

Keep container closed and keep away from oxidizing materials.

Store in a cool-well ventilated area.

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with

governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

SECTION VIII : COMPONENT EXPOSURE LIMITS & PERSONAL PROTECTION						
COMPONENT EXPOSURE LIMIT		OSHA		ACGIH		CARCINOGENIC
COMPONENT	UNITS	TWA	STEL	TLV	STEL	
Synthetic Alkylated Aryl Compounds	mg/m ³	5 - oil mist for 8 hour day		10 oil mist for 8 hour day		non carcinogenic
PERSONAL PROTECTION MEASURES						
EYE	Safety glasses (ANSI Z87.1) or approved equivalent.					
SKIN	Strongly recommend protective gloves, especially for prolonged exposures. Gloves should be removed immediately if there is any indication of degradation or chemical breakthrough. Long sleeved clothing to minimize skin contact.					
INHALATION	Use in well ventilated area. If mist is being generated and exceeds the TWA/TLV listed above than a respiratory program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed.					

SECTION IX : PHYSICAL & CHEMICAL PROPERTIES			
APPEARANCE	Yellow	SPECIFIC GRAVITY (WATER=1)	0.87
PHYSICAL STATE	LIQUID	Molecular weight	
COLOR	Yellow	EVAPORATION RATE BAC=1	
ODOR	Mild bland odor	VISCOSITY SUS	60
VAPOR DENSITY (AIR=1)		SOLUBILITY IN WATER	Miscible

SECTION X : STABILITY & REACTIVITY	
STABILITY:	Stable
CONDITIONS TO AVOID:	Excessive heat, formation of oil mist.
MATERIAL TO AVOID:	Strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, smoke on combustion, COx, etc.
HAZARDOUS DECOMPOSITION:	Analogous compounds evolve carbon monoxide, carbon dioxide, and other unidentified fragments when burned. See Section 5.
HAZARDOUS POLYMERIZATION:	Will not occur.

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SECTION XI: TOXICOLOGICAL INFORMATION

Toxicity data for a similiar material is listed below

Skin irritation	May cause irritation and possible dermatitis.
Eye Irritation	Slight irritation.

SECTION XIII : WASTE DISPOSAL

Consult your local or regional authorities.

SECTION XIV : REGULATORY INFORMATION

Degree of Hazard	NFPA	HMIS	HAZARD RATINGS	
Health	1	1	0	Insignificant
Fire	1	1	1	Moderate
Reactivity	0	0	2	High
Specific Hazards	None		3	Extreme
Personal Protection Index		B	4	Extreme

SECTION XIV: Transport Information

This product is non-hazardous. The product contains no known carcinogens. No special warning labels are required under OSHA 29CFR 1910.1200. OSHA hazard warning are not applicable for this product; Therefore no OSHA Warnings would appear on the label. No EPA hazard classification code.

THE INFORMATION IN THIS MATERIAL SAFETY DATA SHEET SHOULD BE PROVIDED TO ALL WHO USE, HANDLE, STORE, TRANSPORT OR ARE OTHERWISE EXPOSED TO THIS PRODUCT. WE BELIEVE THE INFORMATION IN THIS DOCUMENT TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION, BUT MAKE NO GUARANTEE THAT IT IS.