

STATE OF CALIFORNIA  
DIVISION OF OCCUPATIONAL SAFETY AND HEALTH

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Names (as labeled): **LIMONENE F-300**

Chemical Names: Spray Adjuvant

Manufacturer: EDM Industries, Inc.  
2278 S. Indiana Street  
Porterville, CA 93257

Emergency Phone: 559-781-1516      Name of Preparer: EDM  
Business Phone: 559-781-8992      Date Prepared: 8/97

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Percent	Exposure Limits TLV/PEL
d-Limonene	5989-27-5	None	None
2-Butoxyethanol	11-76-2	None	None

Ingredients not precisely identified as proprietary or nonhazardous.  
Values are not product specifications.

III. PHYSICAL PROPERTIES

Vapor density (air=1)	3.65
pH	6.5 - 7.0
Melting point or range, F	N/A
Specific gravity	0.85
Boiling point or range, F	350 degree F
Solubility in water	100%
Vapor pressure (mmHg at 20 degree C)	1.63
Evaporation rate (butyl acetate = 1)	N/A
Appearance and odor	Clear amber with citrus odor.

HOW TO DETECT THIS SUBSTANCE: Warning properties of substance is a citrus type fragrance.

IV. FIRE AND EXPLOSION

**Flammable limits in air, volume %**      Lower: 0.6%      Upper: 7%

**Fire extinguishing materials:**

X	water spray	X	carbon dioxide	other
X	foam	X	dry chemical	

**Special firefighting procedures:** None

## V. HEALTH HAZARD INFORMATION

### SYMPTOMS OF OVER EXPOSURE

**INHALED:** Inhalation of this product may cause irritation to mouth, nose and throat.

**CONTACT WITH SKIN OR EYES:** Prolonged exposure may cause skin irritation. Vapors of product may cause dryness of eyes, redness and general irritation.

**SWALLOW:** May cause nausea and vomiting.

### HEALTH EFFECTS OR RISKS FROM EXPOSURE

**ACUTE:** Vapor irritate eyes and mucous membranes. Skin contact with liquid may cause localized itching.

**CHRONIC:** May cause dermatitis in sensitive persons.

### FIRST AID PROCEDURES

**SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

**EYE CONTACT:** Flush eyes immediately with plenty of water . Seek medical attention as soon as possible.

**INHALATION:** If overcome by vapor, remove from exposure area and call a physician immediately.

**SWALLOWED:** If swallowed, drink plenty of water. Call a physician immediately.

**NOTICE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

### SUSPECTED CANCER AGENT

X	No: This product's ingredients are not found in the list below.				
X	Yes:	Fed. OSHA	NTP	IARC	Cal/OSHA

SUSPECTED MUTATION AGENT: None

SUSPECTED BIRTH DEFECT AGENT: None

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: None

RECOMMENDATIONS TO PHYSICIAN: Yes

## VI. REACTIVITY DATA

Stable: Stable

**CONDITIONS TO AVOID:** Do not heat product, nor use around exposed electric systems, electric shock could result.

**INCOMPATIBILITY:** Yes

**HAZARDOUS DECOMPOSITION PRODUCTS (including combustion products):** None

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None

## VII. CONCENTRATE SPILL AND DISPOSAL PROCEDURES

**STEP TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED:** Recover all material practical for use. Soak up balance with sand, dirt, or absorbent and haul to approved landfill, check local regulations. Wash residue to sewer with water.

### CAUTION - SLIPPERY ON WET SURFACE

**WASTE, DISPOSAL METHOD:** Material is biodegradable. Check federal, state, and local requirements for proper disposal in sanitary landfill. For sewer disposal of small amounts, dilute with lots of water.

## VIII. SPECIAL PROTECTION INFORMATION

### A. For Concentrate Spills

**Respiratory Protection:** None needed.  
**Ventilation:** Use adequate general ventilation.  
**Protective Gloves:** Rubber or synthetic.

**EYE PROTECTION:** Safety glasses or full face shield when handling material.

**OTHER PROTECTION:** Protective apron.

### B. For Diluted Mixtures

**Respiratory Protection:** None.  
**Ventilation:** General ventilation  
**Protective Gloves:** None.  
**Eye Protection:** Safety glasses or face shield when mixing is recommended.  
**Other protection:** None.

## IX. SPECIAL PRECAUTIONS (CONCENTRATE)

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:** The temperature of stored material not exceed 130 degree F, and do not freeze.