

MATERIAL SAFETY DATA SHEET

ELJEN TECHNOLOGY
SWEETWATER, TX 79556

Emergency Phone (24 hours)
CHEMTREC (800) 424-9300

Page: 1 of 5
Date: 15 August, 2003

PRODUCT NAME: EJ-339 LIQUID SCINTILLATOR

SECTION I SUPPLIER INFORMATION

COMMON NAME EJ-339
CHEMICAL NAME 1,2,3-trimethylbenzene + methy borate
FORMULA Proprietary
PRODUCT CAS # 95-63-6, 121-43-7
MANUFACTURER ELJEN TECHNOLOGY
ADDRESS 2010 East Broadway
SWEETWATER, TEXAS 79556
PHONE (325) 236-9468
FAX (325) 235-0701

SECTION II HAZARDOUS INGREDIENT INFORMATION

COMPONENT	% WT.	OSHA-PEL	TLV-ACGIH
Methyl borate	<60%	not determine	not determined
1,2,4-trimethylbenzene	>30%	25 ppm	not determined

INGREDIENT HAZARD STATEMENT

Solvent is flammable and toxic.

May form explosive mixtures with air.

Solvent is harmful by inhalation, in contact with skin and if swallowed.

Solvent is irritating to the eyes, respiratory system and skin.

Solvent is reactive with water to produce a white powder, boric acid

SECTION III PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT 69°C (156°F)
MELTING POINT N/A
SPECIFIC GRAVITY (H₂O=1) 0.93
VAPOR PRESSURE (mm Hg) 132 mm @ 25°C (77°F)
VAPOR DENSITY (air =1) 3.5
PERCENT VOLATILE BY VOLUME (%) >90%
EVAPORATION RATE (Butyl acetate=1) >3.5
SOLUBILITY IN WATER decomposes

APPEARANCE AND ODOR Clear, blue fluorescent liquid with aromatic odor

MATERIAL SAFETY DATA SHEET

ELJEN TECHNOLOGY
SWEETWATER, TX 79556

Emergency Phone (24 hours)
CHEMTREC (800) 424-9300

Page: 2 of 5
Date: 15 August, 2003

PRODUCT NAME: EJ-339 LIQUID SCINTILLATOR

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 30°F (-1.1°C) (cc)
AUTO-IGNITION TEMP: not determined
FLAMMABLE LIMITS **LEL** not determined **UEL** not determined

SARA TITLE III RATINGS

Immediate Hazard: X Delayed Hazard: X Fire Hazard: X

NFPA RATINGS: Health: 2 Flammability: 3 Reactivity: 2

HMIS RATINGS: Health: 2 Flammability: 3 Reactivity: 2

EXTINGUISHING MEDIA:

Carbon dioxide, dry chemical powder, alcohol or polymer film
Water may be effective for cooling but may not extinguish flames.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Use water spray to cool fire-exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Vapor is heavier than air and may travel considerable distance to ignition source and flash back. Forms explosive mixtures in air.

SECTION V REACTIVITY DATA

STABILITY: **STABLE** **UNSTABLE**

CONDITIONS TO AVOID: Sources of sparks (welding), high temperatures and flames. Use grounded equipment when transferring by pouring to avoid static sparks.

INCOMPATIBILITY(Mat's. To Avoid): Water, Strong acids, strong alkalis and oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic combustion products, Carbon dioxide, Carbon monoxide

HAZARDOUS POLYMERIZATION: Will not occur.

AVOID: Not applicable

MATERIAL SAFETY DATA SHEET

ELJEN TECHNOLOGY
SWEETWATER, TX 79556

Emergency Phone (24 hours)
CHEMTREC (800) 424-9300

Page: 3 of 5
Date: 15 August, 2003

PRODUCT NAME: EJ-339 LIQUID SCINTILLATOR

SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY

EYES: Yes
SKIN: Yes
INHALATION: Yes
INGESTION: Yes

ACUTE EFFECTS OF OVEREXPOSURE

EYE: Can cause severe irritation, redness, tearing, blurred vision.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, and dermatitis.

INHALATION: May cause irritation to upper respiratory tract. Excessive breathing can cause dizziness, nausea, headache.

INGESTION: May cause gastrointestinal disturbances, nausea, vomiting and diarrhea.

CARCINOGENICITY: Not determined

NTP: Not applicable **IARC:** Not applicable **OSHA:** Not applicable

CHRONIC HEALTH HAZARD: Long term exposure can lead to damage to liver, kidneys and nerves. Possible reproductive disorders based on tests of the solvent base with animals.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Not determined

EMERGENCY FIRST AID

EYE Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting upper and lower lids. Contact physician.

SKIN CONTACT: Immediately wash with copious amounts of soap and water. Remove contaminated clothing and launder for reuse. Contact physician if irritation and inflammation persists.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Call a physician.

INGESTION: Do not induce vomiting. Call a physician. Aspiration solvent base into lungs by vomiting can lead to fatal complications.

MATERIAL SAFETY DATA SHEET

ELJEN TECHNOLOGY
SWEETWATER, TX 79556

Emergency Phone (24 hours)
CHEMTREC (800) 424-9300

Page: 5 of 5
Date: 15 August, 2003

PRODUCT NAME: EJ-339 LIQUID SCINTILLATOR

SECTION IX ADDITIONAL INFORMATION

SARA HAZARD CATEGORIES

IMMEDIATE (ACUTE) HEALTH HAZARD: YES NO

DELAYED (CHRONIC) HEALTH HAZARD: YES NO

FIRE HAZARD: YES NO

REACTIVITY HAZARD: YES NO

SUDDEN RELEASE OF PRESSURE: YES NO

SARA SECTION 313 NOTIFICATION

THIS PRODUCT DOES CONTAIN A TOXIC CHEMICAL (OR CHEMICALS)
SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>EC #</u>	<u>%WT</u>
Methyl borate	121-43-7	-----	> 50%
1,2,4-trimethylbenzene	95-63-6	-----	> 40%

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.