

MATERIAL SAFETY DATA SHEET

ELJEN TECHNOLOGY
SWEETWATER, TX 79556

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

Page: 1 of 5
Date: 7 July 2003

PRODUCT NAME: EJ-321-L LIQUID SCINTILLATOR

SECTION I SUPPLIER INFORMATION

COMMON NAME EJ-321-L
CHEMICAL NAME Aromatic hydrocarbon + organic fluors
FORMULA Proprietary
PRODUCT CAS # 95-63-6, 8012-95-1
MANUFACTURER ELJEN TECHNOLOGY
ADDRESS 300 CRANE STREET
SWEETWATER, TEXAS 79556
PHONE (325) 235-4276
FAX (325)235-2872

SECTION II HAZARDOUS INGREDIENT INFORMATION

COMPONENT	% WT.	OSHA-PEL	TLV-ACGIH
1,2,4-Trimethylbenzene	< 15%	Not determined	25 ppm
USP White Oil	>85%	Not determined	Not determined
Organic fluors	<0.2%	Not determined	Not determined

INGREDIENT HAZARD STATEMENT

Avoid prolonged exposure to skin and breathing of vapors.
Liquid does not pose a serious health hazard.

SECTION III PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT > 275°C (527°F)
MELTING POINT Not applicable
SPECIFIC GRAVITY (H₂O=1) 0.86 at 20°C.
VAPOR PRESSURE (mm Hg) < 1 mm @ 20°C (68°F)
VAPOR DENSITY (air =1) approx. 4
PERCENT VOLATILE BY VOLUME (%) < 15%
EVAPORATION RATE (butyl acetate=1) very slow
SOLUBILITY IN WATER Nil

APPEARANCE AND ODOR Clear, blue fluorescent liquid with aromatic odor

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SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): 240°F (111°C) (cc)

AUTO-IGNITION TEMP: > 950°F (510°C)

FLAMMABLE LIMITS

LEL 1.2%

UEL 9%

NFPA HAZARD CLASSIFICATION

HEALTH: 1

FLAMMABLE: 0

REACTIVITY: 0

HMIS HAZARD CLASSIFICATION

HEALTH: X

FLAMMABLE: 0

REACTIVITY: 0

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 may travel considerable distance to ignition source and flash back.
Never use a welding or cutting torch near or on drum, even when empty.

SECTION V REACTIVITY DATA

STABILITY:

STABLE

UNSTABLE

CONDITIONS TO AVOID:

Sources of sparks (welding).

INCOMPATIBILITY(Mat's. To Avoid):

Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide, Carbon monoxide

Toxic combustion products,

HAZARDOUS POLYMERIZATION:

Will not occur.

AVOID:

Not applicable

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SECTION VI HEALTH HAZARD DATA

ROUTES OF ENTRY

EYES:	Yes	INHALATION:	Yes
SKIN:	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 depending on concentration and duration of exposure. Extreme exposure may cause loss of consciousness and respiratory arrest.

INGESTION: Slightly toxic. May cause gastrointestinal disturbances, nausea, vomiting and diarrhea. Aspiration into lungs may cause chemical pneumonia and lung damage.

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.

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.

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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 MAY CONTAIN A TOXIC CHEMICAL (OR CHEMICALS) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>%WT</u>
1,2,4-Trimethylbenzene	95-63-6	>10%

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