

Product Name: POSISTRIP® EKC802™

Rev. B -- Date Prepared: June 20, 1995

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: POSISTRIP® EKC802™
 General Use: Positive Photoresist Stripper
 Product Description: Organic Solvent Blend

MANUFACTURER:
 EKC Technology, Inc.
 2520 Barrington Court
 Hayward, CA 94545
 (510) 784-9105

EMERGENCY TELEPHONE NUMBERS:
 CHEMTREC (800) 424-9300
 24 Hours Everyday

2. COMPOSITION / INFORMATION ON INGREDIENTS

	<u>wt. %</u>	<u>CAS Registry #</u>
Gamma Butyrolactone	Proprietary	96-48-0
Dipropylene Glycol Methyl Ether Acetate	Proprietary	88917-22-0

	<u>EXPOSURE LIMITS 8 hrs. TWA (ppm)</u>		
	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER</u>
Gamma Butyrolactone	None	None	None
Dipropylene Glycol Methyl Ether Acetate	None	None	None

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:**

Light Yellow liquid with ethereal odor.
 May cause skin, eye, and upper respiratory tract irritation.

POTENTIAL HEALTH EFFECTS:**INHALATION:**

The vapor may cause irritation to the upper respiratory tract.

EYE CONTACT:

Contact with this material may cause eye irritation.

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SKIN CONTACT:

Contact with this material may cause skin irritation.

INGESTION:

Ingestion of this material may cause gastrointestinal irritation.

TARGET ORGANS:

Central nervous system, eyes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Overexposure may aggravate existing respiratory conditions or dermatitis.

4. FIRST AID MEASURES**INHALATION:**

Remove to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

EYE CONTACT:

Immediately flush eyes with water for at least 15 minutes. Have eyes examined and treated by a physician.

SKIN CONTACT:

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. If redness or irritation occurs, seek medical attention.

INGESTION:

Induce vomiting as directed by a physician. Maintain an open airway. Administer artificial respiration if necessary. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flashpoint:	>200°F (>93 °C)
Method:	Tag Closed Cup
Flammable Limits in Air, % by volume:	Lower: Not available
	Upper: Not available
Auto-ignition Temperature:	Not Available
Extinguishing Media:	Water, foam, carbon dioxide, dry chemical.

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UNUSUAL FIRE AND EXPLOSION HAZARDS:

None have been identified.

FIRE FIGHTING INSTRUCTIONS:

Use water spray to cool containers and fire exposed surfaces. Shut off fuel to fire if possible to do so without hazard.

FIRE FIGHTING EQUIPMENT:

Wear full protective clothing with self-contained positive pressure breathing apparatus.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES**SPILL OR LEAK PROCEDURES:**

Evacuate area and keep personnel upwind. Cut off any source of ignition and ventilate the spill area. Dilute spills with water and contain spill with absorbent material. Transfer absorbent and other contaminated materials to a DOT approved covered container for disposal. Consult with Federal, State and local regulatory agencies to determine acceptable clean-up levels. Comply with Federal, State and local regulations on reporting releases.

7. HANDLING AND STORAGE:**STORAGE TEMPERATURE:**

Storage in a cool, dry, well-ventilated area at 40° - 90°F (5° - 32°C) is recommended.

GENERAL:

Keep in original tightly closed containers.
Keep away from strong oxidizing agents or acids.
Prevent skin and eye contact.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION**PERSONAL PROTECTION:****RESPIRATORY PROTECTION:**

No respiratory protection is required when this material is handled under proper ventilation, such as a wet bench or fume hood. If proper ventilation is not available, use a NIOSH approved full-face respirator with canisters or cartridges specifically approved for organic vapors. Whenever cartridges or canister respirators are used, ensure the frequent changing of the filter element. Use a supplied air respirator when in doubt of the atmospheric concentration. Consult 29 CFR 1910.134 regarding use of respirators.

PROTECTIVE CLOTHING:

Take all precautions to prevent skin contact. Wear Nitrile or Latex clothing and gloves, and chemical resistant boots when there is a probability of liquid contact. Use chemical goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure: 1.5 mmHg @ 68°F (20°C)
Specific Gravity: 0.95 - 1.15 g/ml
Solubility in Water: Complete
pH: Not Available
Boiling Point: 371 - 430°F (188 - 221°C)

Vapor Density: >1 (Air = 1)
Evaporation Rate: <1 (Butyl
Acetate = 1)
Freezing Point: Not available
Odor: Ethereal
Appearance: Light Yellow liquid
Physical State: Liquid

10. STABILITY AND REACTIVITY**GENERAL:**

This product is stable at normal temperatures and conditions of storage.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents, or acids.

HAZARDOUS DECOMPOSITION:

Carbon Monoxide.

HAZARDOUS POLYMERIZATION:

Will not normally occur.

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11. TOXICOLOGICAL INFORMATION**DATA FOR POSISTRIP® EKC802™:**

INHALATION: LC₅₀ No information available on this mixture.
 INGESTION: LD₅₀ No information available on this mixture.
 SKIN CONTACT: LD₅₀ No information available on this mixture.
 EYE CONTACT: No information available on this mixture.
 GENOTOXICITY: No information available on this mixture.

DATA FOR γ -BUTYROLACTONE, A COMPONENT OF POSISTRIP® EKC802™:

EYE CONTACT: Severely irritating
 SKIN CONTACT: Nonirritating
 INGESTION: LD₅₀, rats: 1800 mg/kg, slightly toxic
 LD₅₀ mice: 1260 mg/kg, slightly toxic; sedative and hypnotic effects noted.
 GENOTOXICITY: generally negative in bacterial, yeast, insect, and mammalian test systems for mutations and chromosomal effects.
 TARGET ORGANS: Central nervous system, eyes.
 DEVELOPMENTAL TOXICITY: Gavage study (rat, days 6-15 of gestation):
 NOAEL for maternal and developmental toxicity = 500 mg/kg, the highest dose tested.
 CHRONIC TOXICITY: Gavage study (rat, 104 weeks):
 NOAEL = 225 mg/kg
 (decreased body weight gain noted in females; no increases in tumors found).
 Gavage study (mouse, 104 weeks):
 LOAEL = 262 mg/kg
 (decreased body weight gain noted especially in females; equivocal increases in adrenal tumors).

12. ECOLOGICAL INFORMATION.

No data are available for POSISTRIP® EKC802™. Data for the components are summarized below.

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DATA FOR γ -BUTYROLACTONE, A COMPONENT OF POSISTRIP® EKC802™:

FATE: The lactone is in equilibrium with the free acid form in water. Under basic conditions, the acid form may predominate. Estimated half life for evaporation from a river is 2 days. Significant evaporation from dry or moist soil likely. Moderate to high mobility in soil expected. Not expected to significantly bioconcentrate in aquatic organisms or adsorb to sediment.

13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS:**

Consult 40 CFR, Parts 261 and 268 for guidance on disposal of this product. Incineration at a facility with appropriate permits or authorizations is the recommended method for disposal.

CONTAINER DISPOSAL:

Empty containers retain product residue. Observe all hazard precautions. Keep away from heat, sparks, and flames. Do not distribute, make available, or reuse empty containers except for storage and shipment of original product. Remove all hazardous product residue, and puncture or otherwise destroy empty containers before disposal. Consult 40 CFR 261 and 268 for guidance on disposal.

14. TRANSPORT INFORMATION**DOT/IMO and ICAO/IATA**

Proper Shipping Name: Not Regulated

Hazard Class: None

Identification Number: None

Packing Group: None

Labels Required: None

IMDG Page No.: None

15. REGULATORY INFORMATION**TSCA (Toxic Substance Control Act):**

Components of this product are listed on the TSCA Inventory.

SARA TITLE III (Superfund Amendments and Reauthorization Act):

311/312 Hazard Categories

Acute

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313 This product contains no substances which are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CERCLA (Comprehensive Response Compensation, and Liability Act):
NOT Reportable.

We recommend you contact local authorities to determine if there may be other local reporting requirements.

16. OTHER INFORMATION

Because the health effects from exposure to POSISTRIP® EKC802™ have not been fully evaluated, exposure should be kept to the lowest level possible.

This material is for industrial use and should only be used under the supervision of a technically qualified individual.

Label Information:

NFPA Codes

Health - 1

Fire - 1

Reactivity - 0

Specific Hazard - None

REVISION SUMMARY:

Rev. B --Initial 16 Section MSDS.

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Manager, Industrial Hygiene & Health

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