

ATEC, INC.815 E. TONTO STREET
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Fax (602)253-2585

MATERIAL SAFETY DATA SHEET MSDS -1-

-----I. IDENTIFICATION-----

Product Name: ERL-170 ENVELOPE (BAG) RELEASE LUBRICANT
(WATER BASE, NON-SILICONE)Manufacture's Name: ATEC, Inc.
815 East Tonto Street
Phoenix, Arizona 85034
(602) 253-3921 (800) 547-1574
Fax: (602) 253-2585

Date Prepared or Revised: 5-23-12

-----II. INGREDIENTS-----

Isopropanol (IPA alcohol)
CAS Number: 67-63-0
Exposure Limits in Air: Not Hazardous per OSHA 1910.1200PTFE (Teflon)
CAS Number: 9002-88-0 9002-88-4
Exposure Limits in Air: Not Hazardous per OSHA 1910.1200Water (H2O)
CAS Number: 4151-50-2
Exposure Limits in Air: Not hazardous per OSHA 1910.1200Balance Proprietary
Trade Secret: Compound
Exposure Limits in Air: Not Hazardous per OSHA 1910.1200

	NPCA-HMIS	NFPA 704	
HEALTH	1	1	4=Severe
FLAMMABILITY	0	0	3=Serious
REACTIVITY	0	0	2=Moderate
			1=Slight
			0=Minimal

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-----III. PHYSICAL PROPERTIES-----

Vapor Density (air=1):	>1
Melting Point or Range F.:	N/A
Specific Gravity:	8 lb per Gallon (72F)
Solubility in Water:	100%
Boiling Point or Range:	Same as Water
Evaporation Rate:	Same as Water
Vapor Pressure mmHg @ 20 degrees C.:	Same as Water
Appearance and Oder:	Light Blue Liquid, Essentially Odorless
How top Detect this Substance: (Warning properties of this substance as a gas, vapor, dust or mist):	Mild Rubbing Alcohol Odor

-----IV. FIRE HAZARD INFORMATION-----

Flash Point, degrees F. (give method):	ASTM D-56 127.0 F., TCC
Auto Ignition Temperature, degrees F.:	N/A
Flammable Limits in Air, Volume %:	Lower (Lel) N/A Upper (Uel) N/A
Special Fire Fighting Procedures:	Self-contained breathing apparatus with full face piece
Unusual Fire and Explosion Hazards:	None

-----V. HEALTH HAZARD INFORMATION-----

While the IPA alcohol in this formula is highly diluted with water (H₂O), the following effects should be noted:

Inhalation:	May cause irritation of the nose and throat. Exposure to high concentrations has a narcotic effect producing symptoms of drowsiness.
Ingestion:	May cause drowsiness, unconscious and death, gastro-intestinal pain, cramps, nausea, and diarrhea may result.
Skin Contact:	Has a de fattening action of the skin that can cause irritation. May cause stinging and a burning effect.
Chronic Exposure:	Prolonged contact with the skin may cause mild irritation, drying, or contact dermatitis may develop.
Note:	Persons with pre-existing skin disorders or eye problems or impaired respiratory function

FIRST AID:

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

In gestation: Give water to drink. Induce vomiting if medical help is not readily available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Exposure: Remove any contaminated clothing. Wash skin with soap and water or mild detergent for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Exposure: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention.

Toxicity: (RTECES, 1986) ALCOHOL ONLY. Oral rat LD50: 5840 mg/kg. Shin rabbit LD50: 13gm/kg. Inhalation rat LD50: 16000 ppm/8h.

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Suspected Cancer Agent: None. ERL-170 ingredients are not found in the lists: Federal OSHA, NTP and IARC.

Medical Conditions Aggravated by Exposure: See health effects or risks above.

-----VI. REACTIVITY DATA-----

Stability: Stable.

Incompatibility (Materials to Avoid): Strong Oxidants.

Hazardous Combustion or Decomposition Products: N/A

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Contact with liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.

-----VII. SPILL, LEAK or DISPOSAL PROCEDURES-----

Steps to be taken if Material is Released or Spilled: Keep people away. Recover free product with sand, earth, or other suitable absorbent.

Waste Disposal Method: Shovel into plastic or steel container.

Note: Disposal of all wastes in accordance with federal, state and local regulations.

-----VII. SPECIAL HANDLING INFORMATION-----

Ventilation and Engineering Controls: Use only with ventilation sufficient to prevent exceeding recommended exposure concentrations of vapor in air.

Respiratory Protection (Specify Type): Use supplied air respiratory protection in confined or enclosed spaces, if needed.

Eye Protection (Type): Use splash goggles or face shield when eye contact may occur.

Other Protective Equipment: Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing which could result in repeated skin contact.

Gloves (Specify Material): Use chemical-resistant gloves, if needed, to avoid skin contact.

Work Practices, Hygienic Practices: Keep containers and storage containers closed when not in use. Do not store near strong oxidants.

Handling and Storage Precautions: Minimize breathing vapor mist. Avoid repeated contact with skin. Remove and launder or dry-clean contaminated clothing before reuse. Remove and clean contaminated shoes. Cleanse skin thoroughly after contact before breaks and meals.

Avoid Build UP of Material: On equipment or floor to prevent slippage and possible injury.