

5840-00

Material Safety Data Sheet Interpretative Statement for Pentel® Roll n Glue Liquid Adhesive ER 101

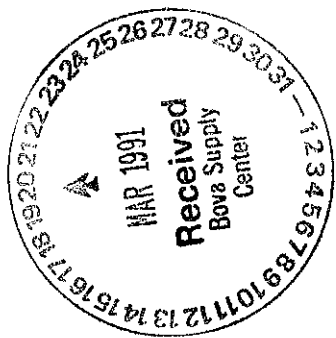
Description of Product: This liquid adhesive is marketed in small (30cc) dispensers with a restricted flow devise. This water based glue dries to form an adhesive bond primarily for use with paper and cloth.

Physical Hazards: The adhesive is soluble in water and is not flammable per se. However, if ignited, a general type fire extinguisher and normal precautions would be adequate. There are no recognized hazardous decomposition products.

Health Hazards: The acute health hazards associated with this product are low. The adhesive is not a skin irritant and there are no fumes to irritate the eyes. The product can be easily washed from the body with water. Because the product contains 5% ethylene glycol ingestion of large amounts of the product may be slightly toxic. Another ingredient, polyvinyl alcohol, is listed as a suspected carcinogen but only in studies where the solid material (e.g. sponge) was implanted in animals. The solid form is not present in this product.

No special ventilation or protective clothing is currently required while using the product but gloves are recommended if large amounts of the adhesive are to be used.

No special procedures are currently required for storing or handling this product.



SIGNED FOR THE COMPANY BY

Brian L. Roberts 11.21.85

Brian L. Roberts, Ph.D. TOXICOLOGIST

V-3377

# Material Safety Data Sheet

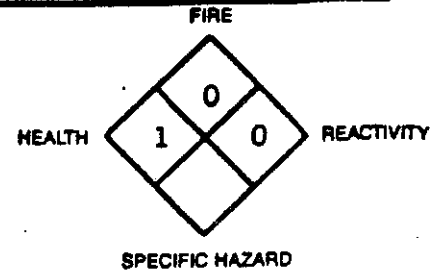
QUICK IDENTIFIER (In Plant Common Name)  
ER-101

Manufacturer's Name  
Pentel of America, Ltd.

Address  
2715 Columbia St.  
Torrance, CA 90509

Signature of Person Responsible for Preparation  
*Brian L. Roberts*  
Brian L. Roberts, PhD

HAZARD RATING  
4 = Extreme  
3 = High  
2 = Moderate  
1 = Slight  
0 = Insignificant



See Section (5):

## SECTION 1 - IDENTITY

Common Name: (used on label)  
(Trade Name & Synonyms) Pentel Roll'n Glue Liquid Adhesive ER-101

Chemical Name  
N/A

Formula  
Proprietary

## SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component(s) (chemical & common name(s))	%	ACGIH TLV	Other Limits Recommended
Ethylene glycol ( EG; 1,2-ethanediol )	5	50 ppm	--
Polyvinyl alcohol ( PVAL )	14.4	TLV not established	

## SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS (Fire & Explosion Data)

Boiling Point	not established	Specific Gravity (H <sub>2</sub> O = 1)	not established	Vapor Pressure (mm Hg)	non-volatile
Percent Volatile by Volume (%)	non-volatile	Vapor Density (Air = 1)	N/A	Evaporation Rate (_____ = 1)	not established
Solubility in Water	very soluble	Reactivity in Water	none		
Appearance and Odor	A viscous, odorless liquid ( 80% water ) that is available as a clear, light blue				

or light pink product

Flash Point	> 160 F	Flammable Limits in Air % by Volume	Lower	Upper	Extinguisher Media	water, CO <sub>2</sub> , dry chemical	Auto-ignition temperature	not established
Special Fire Fighting Procedures	None							

Unusual Fire and Explosion Hazards  
None

**SECTION 4 - REACTIVITY DATA**

ER-101 continued

	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid) Avoid heating product, heat sources, oxidizing materials.

Hazardous Decomposition or Byproducts None recognized

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

**SECTION 5 - HEALTH HAZARDS**

Route(s) of Entry: Inhalation? mild irritant Skin? poorly absorbed Ingestion? DO NOT INGEST

Health Hazards (Acute and Chronic) This product presents a slight health hazard if used as intended. The principal hazard is by ingestion and may be slightly toxic if swallowed. Not a skin irritant.

Carcinogenicity: PVAL is listed as a suspect carcinogen by IRAC, NIOSH following parental implantation of PVAL sponges.

Signs and Symptoms of Exposure Unknown

Emergency and First Aid Procedures

- Inhalation Move to fresh air; artificial respiration if necessary
- Eyes Irrigate with water
- Skin Wash with soap and water
- Ingestion Give fluids, induce vomiting

**SECTION 6 - SPECIAL PROTECTION INFORMATION**

Respiratory Protection (Specify Type)	Not required			
Ventilation	Local Exhaust	Mechanical (General)	Special	Other
recommended	--	adequate	--	--
Protective Gloves	recommended but not required		Eye Protection	goggles if contact likely
Other Protective Clothing or Equipment	None			

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

Precautions to be Taken in Handling and Storage Store in closed containers away from heat sources

Other Precautions Avoid generation of mists or aerosols through agitation or heating

Steps to be Taken in Case Material is Released or Spilled Flush spills with copious amounts of water. Principal ingredients

(EG, PVAL) are stated to have low toxicity to aquatic life and degrade rapidly.

Waste Disposal Dispose in landfill in accordance with State, Federal regulations