

PENTEL**MATERIAL SAFETY DATA SHEET**

ISSUE NUMBER : W1-BLN77000-01-E

ISSUE DATE:Dec.21,2005

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : ENERGEL Retractable
Gel Roller Pen (0.7mm)
 COMPANY NAME : PENTEL CO.,LTD
 ADDRESS : 7-2 KOAMI-CHO, NIHONBASHI, CHUO-KU, TOKYO, 103-8538 JAPAN
 TELEPHONE NO. : 03-3667-3333 (JAPAN)
 DEPARTMENT : QUALITY ASSURANCE DEPARTMENT
 PRODUCT CODE : BLN77-A(Black),B(Red),C(Blue),V(Violet)

2 COMPOSITION/INFORMATION OR IDENTIFICATION

《CHEMICAL NAME》	《CONCENTRATION》	《AS NO.》
ETHYLENE GLYCOL	9-10%	107-21-1
DIETHYLENE GLYCOL	7-8%	111-46-6
GLYCEROL	7-8%	56-81-5

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW : N/A

HAZARDS

SPECIFIC HAZARDS : N/A
 PHYSICAL/CHEMICAL : N/A
 HEALTH EFFECTS : Causes slight skin and eye irritation.
 ENVIRONMENTAL EFFEC : N/A

4 FIRST AID MEASURES

INHALATION : N/A
 EYE CONTACT : Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation persists.
 SKIN CONTACT : Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
 INGESTION : Give victim a glass of water or milk. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

5 FIRE FIGHTING MEASURES

FIRE FIGHTING METHO : No flammable liquid
 EXTINGUISHING MEDIA : N/A

6 ACCIDENTAL RELEASE MEASURES

LAND SPILL : Absorb the liquid and scrub the area with detergent and water.
 WATER SPILL : N/A

7 HANDLING AND STORAGE

HANDLING : Keep away from sources of ignition, heat, and direct sunlight.
 STORAGE : Store away from sources of ignition, heat, and direct sunlight.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTRO : No special controls are needed.

PERSONAL PROTECTIVE EQUIPMENT:

EYE : None needed.

SKIN/BODY/HAND : None needed.

RESPIRATORY : None needed.

EXPOSURE GUIDELINES : N/A

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Liquid.(ink)

APPEARANCE : ball point pen

COLOR : black,red,blue,violet

ODOR : none

SOLUBILITY IN WATER : Soluble.

10 STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable at room temperature.

CONDITIONS TO AVOIE : Avoid temperatures above 104° F (40°C).

Store away from sources of ignition, heat, and direct sunlight.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY : N/A

EYE EFFECTS : N/A

SKIN EFFECTS : N/A

CHRONIC EFFECTS : N/A

CARCINOGENICITY : N/A

12 ECOLOGICAL INFORMATION

: N/A

13 DISPOSAL CONSIDERATIONS

Comply with all federal, state, and local regulations.

Do not dump this material into sewers,on the ground or into any body of water.

14 TRANSPORT INFORMATION

Comply with all federal, state, and local regulations.

See above Section 7, "HANDLING AND STORAGE."

15 REGULATORY INFORMATION

N/A

16 OTHER INFORMATION

None

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