PENTEL MATERIAL SAFETY DATA SHEET

ISSUE NUMBER : W1-BL570000-02-E ISSUE DATE:Dec.6,2005

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	: ENERGEL REFILLABLE 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	: BL57-AX(Black),BX(Red),CX(Blue),VX(Violet) BL57-AO(Black),BO(Red),CO(Blue)

2 COMPOSITION/INFORMATION OR IDENTIFICATION

《 CHEMICAL NAME 》	《CONCENTRATION	《CAS 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 flom 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 AVOID	: Avoid temperatures above 104° F (40℃). 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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