

PENTEL

MATERIAL SAFETY DATA SHEET

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ISSUE NUMBER : W3-KFR10001-01-E

ISSUE DATE: MAY.10, 2001

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : 1.0mm Hybrid roller refill

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 : KFR10-A,B,C

2 COMPOSITION/INFORMATION OR IDENTIFICATION

《CHEMICAL NAME》	《CONCENTRATION》	《CAS NO.》
Diethylene glycol	1-4%	111-46-6
Ethylene glycol	6-8%	107-21-1
Glycerol	10-13%	56-81-5

3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW : N/A

HAZARDS

SPECIFIC HAZARDS : N/A
 PHYSICAL/CHEMICAL : N/A
 HEALTH EFFECTS : N/A
 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 : Immediately flush mouth with plenty of water.
 Small amounts swallowed are not likely to cause injury.
 Get medical attention, if swallowed large amounts do not induce vomiting.

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 CONTROL : 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 PROPERTIESPHYSICAL STATE : Liquid.(ink)
APPEARANCE : ballpoint pen refill
COLOR : black,red,blue
BOILING POINT : N/A
MELTING POINT : N/A
VAPOR PRESSURE : N/A
SPECIFIC GRAVITY : N/A

VISCOSITY : N/A**10 STABILITY AND REACTIVITY**CHEMICAL STABILITY : Stable at room temperature.
CONDITIONS TO AVOID : 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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