

ISSUE NUMBER : Z2-NXS150001-01-E      ISSUE DATE: Apr.19, 2007

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### 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Pentel PEN  
PERMANENT MARKER Retractable & Refillable  
COMPANY NAME : PENTEL CO.,LTD  
ADDRESS : 7-2 KOAMI-CHO NIHONNBASHI CHUO-KU TOKYO 103-8538 JAPAN  
TELEPHONE No. : 03(3667)3333  
DEPARTMENT : QUALITY ASSURANCE DEPARTMENT  
  
PRODUCT CODE : NXS15-AO,BO,CO,DO  
NR3-AO,BO,CO,DO

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### 2 COMPOSITION/INFORMATION ON IDENTIFICATION

A SUBSTANCE / A PREPARATION ; A PRAPARATION

| 《CHEMICAL NAME》                     | 《CONCENTRATION | 《CAS No.》  |
|-------------------------------------|----------------|------------|
| Ethyl alcohol                       | 50-71%         | 64-17-5    |
| ※2 N-propanol                       | 14%            | 71-23-8    |
| Isopropyl alcohol                   | 7-12%          | 67-63-0    |
| Benzyl alcohol                      | 4-5%           | 100-51-6   |
| ※1 Propylene glycol monoethyl ether | 10%            | 52125-53-8 |
| ※2 Rosin                            | 7%             | 8050-09-7  |
| ※2 Alkyl benzene sulphonic acid     | 4%             | 68584-22-5 |

※1 Only used for NXS15-CO,XNR3-CO  
※2 Only used for NXS15-AO,XNR3-AO

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### 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW : Flammable liquid  
Intentional misuse by deliberately concentrating and inhaling  
the contents can be harmful or fetal.

#### HAZARDS

HEALTH EFFECTS : N/A  
ENVIRONMENTAL EFF : N/A  
PHYSICAL/CHEMICAL : N/A  
SPECIFIC HAZARDS : N/A

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### 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 symtonms  
occur. Wash clothing before reuse.  
INGESTION : Immediately wash mouth with plenty of water.  
If swallowed, do not induce vomiting.  
Get medical attention if symptoms occur.

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### 5 FIRE-FIGHTING MEASURES

FIRE-FIGHTING METHC : Use following extinguishing media.  
EXTINGUISHING MEDIA : Carbon dioxide, dry chemical, form chemical

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### 6 ACCIDENTAL RELEASE MEASURES

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

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**7 HANDLING AND STRAGE**

HANDLING : Keep away from sources of ignition,heat,and direct sunlight.  
Direct sources of heat must be avoid.  
STORAGE : Store away from sources of ignition,heat,and direct sunlight.  
A moderately cool,dry,well-ventilated area.

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**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTRO : for normal use;No special controls are needed.

PERSONAL PROTECTIVE EQUIPMENT:

EYE : No special equipment are needed.  
SKIN/BODY/HAND : No special equipment are needed.  
RESPIRATORY : No special equipment are needed.

EXPLOSURE GUIDELINE : N/A

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**9 PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE : Liquid  
APPEARANCE : Pen(Permanent and water—proof marker)  
COLOR : 4 colors(Black,Red,Blue,Green)  
ODOR : peculiar smell  
PH : N/A  
BOILING POINT : N/A  
MELTING POINT : N/A  
VAPOUR PRESSURE : N/A  
VAPOUR DENSITY : N/A  
SOLUBIITY IN WATER : insoluble  
VISCOSITY : N/A

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**10 STABILITY AND REACTIVITY**

CHEMICAL STABILITY : STABLE AT ROOM TEMPERATURE  
CONDITION TO AVOID : Avoid temperatures above 40°C  
Store away from sources of ignition,heat,and direct sunlight.

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**11 TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY : N/A  
EYE EFFECTS : N/A  
SKIN EFFECTS : N/A  
CHRONIC EFFECTS : N/A  
CARCINOGENICITY : N/A

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**12 ECOLOGICAL INFORMATION**

: N/A

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**13 DISPOSAL CONSIDERATIONS**

Comply with national and local regelations.  
Do not dump this material into sewers,on the ground or into any body of water.

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**14 TRANSPORT INFORMATION**

Comply with national and local regelations.  
See above Section 7, "HANDLING AND STRAGE"

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**15 REGURATORY INFORMATION**

N/A

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**16 OTHER INFORMATION**

NONE

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