

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

### 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

### 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		

### 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

### 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.

### 5 FIRE-FIGHTING MEASURES

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

### 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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