ATTN. Mr. Kitabala MATERIAL SAFETY DATA SHEET

1/2

**ISSUE NUMBER** 

: Q1-NN50000I-02-E

ISSUE DATE:Mar.1, 2006

## 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

: Permanent marker

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

: NN50(bullet point)-A (Black),-B(Red),-C(Blue),-D(Green) NN60(chisel point)-A (Black),-B(Red),-C(Blue),-D(Green)

## 2 COMPOSITION/INFORMATION ON IDENTIFICATION

A SUBSTANCE / A PREPARATION; A PRAPARATION

*«CONCENTRATION* 《CAS No.》 《 CHEMICAL NAME 》 64-17-5 50-71% Ethyl alcohol 14% 71-23-8 <sup>™</sup>2 N-propanol 7-12% 67-63-0 Isopropyl alcohol 100-51-6 4-5% Benzyl alcohol 52125-53-8 X1 Propylene glycol monoethyl other 10% 7% 8050-09-7 ₩2 Rosin 68584-22-5 1% ※2 Alkyl benzene sulphonic acid

※1 Only used for NN50-C

※2 Only used for NN50-A

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEV: Flammable liquid

·Intentional misuse by deliberately concentrating and inhaling

the contents can be harmful or fetal.

**HAZARDS** 

: N/A HEALTH EFFECTS 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

occour.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.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT:

EYE

No special equipment are needed.No special equipment are needed.No special equipment are needed.

EXPLOSURE GUIDELINE: N/A

SKIN/BODY/HAND

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE

RESPIRATORY

: Liquid

APPEARANCE

: Pen(Permanent and water-proof marker)

COLOR

: 4 colors(Black, Red, Blue, Green)

ODOR : 1

PH

: peculiar smell : N/A

BOILING POINT MELTING POINT

: N/A : N/A

VAPOUR PRESSURE VAPOUR DENSITY

: N/A : N/A

SOLUBIITY IN WATER VISCOSITY

: insoluble : N/A

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 synlight.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

: N/A

EYE EFFECTS

N/A

SKIN EFFECTS
CHRONIC EFFECTS

: N/A

CARCINOGENICITY

: N/A : N/A

12 ECOLOGICAL INFORMATION

. N/A

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.

14 TRANSPORT INFORMATION

Comply with national and local regelations.

See above Section 7,"HANDLING AND STRAGE"

15 REGURATORY INFORMATION

N/A

## 16 OTHER INFORMATION

NONE

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