ISSUE NUMBER

: Q1-100WS001-05-E

ISSUE DATE: April 9,2010

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : White marker (Fine bullet point)

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 : X100W-S

Ink was changed from November 2009 production.

2 COMPOSITION/INFORMATION ON IDENTIFICATION

A SUBSTANCE / A PREPARATION; A PRAPARATION

《 CHEMICAL NAME 》 《CONC	CENTRATION》	《CAS No.》
Propylene Glycol Monoethyl Ether	39.1%	1569-02-4
Ethyl Lactate	14.0%	97-64-3
n-Propyl Alcohol	9.8%	71-23-8
Benzyl Alcohol	2.8%	100-51-6
Titanium Dioxide	21.0%	13463-67-7
Nitrocellulose	4.8%	9004-70-0
Gum Rosin	4.2%	8050-09-7
Citric acid, tributyl ester, acetate	3.6%	77-90-7
n-Propyl Alcohol Benzyl Alcohol Titanium Dioxide Nitrocellulose Gum Rosin	9.8% 2.8% 21.0% 4.8% 4.2%	71-23-8 100-51-6 13463-67-7 9004-70-0 8050-09-7

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

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 PIRE-FIGHTING MEASURES

FIRE-FIGHTING METHO: 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

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 CONTROL: for normal use; No special controls are needed.

PERSONAL PROTECTIVE EQUIPMENT:

MATERIAL SAFETY DATA SHEET

ISSUE NUMBER

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ISSUE DATE: April 9,2010

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

EXPLOSURE GUIDELINE: N/A

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Liquid

APPEARANCE : Pen(White permanent and water—proof marker)

COLOR : 1 color (white)
ODOR : peculiar smell

PH : N/A
BOILING POINT : N/A
MELTING POINT : N/A
VAPOUR PRESSURE : N/A
VAPOUR DENSITY : N/A
SOLUBITY IN WATER : insoluble
VISCOSITY : 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 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 national and local regelations.

Do not dump this material into sewers, on the ground or into any body of water.

14 TRANSPORT INFORMATION

FLASH POINT : 35.2° C UNNo : 1263

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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