

ISSUE NUMBER : Q1-100W0001-04-E

ISSUE DATE:Dec.4, 2009

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : White marker (Broad 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 : X100-W (white)

Ink was changed from August,2008 production.

2 COMPOSITION/INFORMATION ON IDENTIFICATION

A SUBSTANCE / A PREPARATION ; A PRAPARATION

《 CHEMICAL NAME 》	《 CONCENTRATION 》	《 CAS No. 》
Butyl Acetate	19.5%	123-86-4
Isopropyl Alcohol	15.0%	67-63-0
Propylene Glycol Monomethyl Ether Acetate	9.8%	108-65-6
Xylene	1.4%	1330-20-7
(contains Ethylbenzene		100-41-4)
Titanium Dioxide	32.7%	13463-67-7
Mineral Spirits	2.7%	8052-41-3

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

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 CONTROL : 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.

EXPOSURE 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

SOLUBILITY 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 regulations.

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

14 TRANSPORT INFORMATION

FLASH POINT : 17.3°C

UNNo : 1263

Comply with national and local regulations.

See above Section 7,"HANDLING AND STORAGE"

15 REGULATORY INFORMATION

N/A

16 OTHER INFORMATION

NONE

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