

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.

ISSUE NUMBER : Q1-100W0001-04-E ISSUE DATE:Dec.4, 2009

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 STRAGE”

15 REGULATORY INFORMATION

N/A

16 OTHER INFORMATION

NONE

This information is furnished without warranty,express or implied express or implied,except that it is accurate to the best knowledge of PENTEL Co.,Ltd.It is relates only to the specific material designated herein,and does not relate to use in combination with any other material or in any process.PENTEL Co.,Ltd assumes no legal responsibility for use of or reliance upon this informations.