

ISSUE NUMBER : Q1-NLF50001-03-E ISSUE DATE:October 15,2013

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Maxiflo (permanent marker)

COMPANY NAME : PENTEL CO.,LTD
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PRODUCT CODE : NLF50-A(Black),B(Red),C(Blue),D(Green),
 E(Brown),F(Orange),G(Yellow),V(Violet)
 NLF60-A(Black),B(Red),C(Blue),D(Green),
 E(Brown),F(Orange),G(Yellow),V(Violet)

2 COMPOSITION/INFORMATION ON IDENTIFICATION

A SUBSTANCE / A PREPARATION ; A PRAPARATION

《 CHEMICAL NAME 》	《CONCENTRATION	《CAS No.》
Ethyl alcohol	50-67%	64-17-5
※2 n-propanol	14%	71-23-8
Isopropyl alcohol	8-10%	67-63-0
Benzyl alcohol	4-5%	100-51-6
※1 Ethoxypropanol	10%	1569-02-4
※2 Alkylbenzene sulfonic acid	4%	68584-22-5

※1 Used for B(Red),C(Blue),D(Green),E(Brown),F(Orange),G(Yellow),V(Violet)

※2 Used for A(Black)

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 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

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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 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.

EXPLOSURE GUIDELINE : N/A

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Liquid
APPEARANCE : Pen(Liquid ink permanent and water — proof marker)
COLOR : 8 colors(Black,Red,Blue,Green,Brown,Orange,Yellow,Violet)
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

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 ; about 14.5°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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