



MATERIAL SAFETY DATA SHEET

Issue No:

Q1-N5000001-01-E

Issue Date:

15 March 2001

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: Permanent Marker

Product Code:

N50-A (Black)

N50-B (Red)

N50-C (Blue)

N50-D (Green)

N50-E (Brown)

N50-F (Orange)

N50-G (Yellow)

N50-V (Violet)

N60-A (Black)

N60-B (Red)

N60-C (Blue)

N60-D (Green)

Company Name:

Pentel (Stationery) Ltd

Address:

Hunts Rise, South Marston Park, Swindon, SN3 4TW, Wilts

Tel No:

01793 823333

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Concentration</u>	<u>CAS No</u>
Xylene	45-71%	1330-20-7
Isobutyl Alcohol ⁽¹⁾	3-15%	78-83-1
Ethylene Glycol Monoethyl Ether ⁽²⁾	6-15%	110-80-5
Ethylene Glycol Monopheryl Ether ⁽³⁾	3%	122-99-6
C.I. Solvent blue 5 ⁽⁴⁾	0.4-2.5%	1325-86-6

(1) Used only for N50-A/B/D/E/F/G/K/P/S/V/Y

(2) Used only for N50-B/C/D/E/F/G/K/P/S/V/Y

(3) Used only for N50-A

(4) Used only for N50-C/V

3. HAZARDS IDENTIFICATION

Emergency Overview:

Flammable liquid. Intentional misuse by deliberately inhaling the contents can be harmful or fatal.

Hazards:

Health Effects: N/A

Environmental Effects: N/A

Physical/Chemical: N/A

Specific Hazards: N/A

4. FIRST AID MEASURES

Inhalation:	Remove from source and seek medical attention.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Seek medical attention if symptoms occur. Wash clothing before re-use.
Ingestion:	Immediately wash mouth with plenty of water. If swallowed, do not induce vomiting. Seek medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES

Fire Fighting Method:	Use following extinguishing media.
Extinguishing Media:	Carbon dioxide, dry chemical, foam chemical

6. ACCIDENTAL RELEASE MEASURES

Land Spill:	Absorb liquid and scrub the area with detergent and water.
Water Spill:	N/A

7. HANDLING & STORAGE

Handling:	Keep away from sources of ignition, heat and direct sunlight. Direct sources of heat must be avoided.
Storage:	Store in a moderately cool, dry and well ventilated area. Store away from sources of ignition, heat and direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:	No special controls are needed for normal use.
-----------------------	--

Personal Protective Equipment:

Eyes:	No special equipment is needed.
Skin:	No special equipment is needed.
Respiratory:	No special equipment is needed.

Exposure Guideline:	N/A
---------------------	-----

9. PHYSICAL & CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Pen (permanent and waterproof marker)
Colour:	8 colours (black,red,blue,green,brown,orange,yellow,violet)
Odour:	Distinctive 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 & REACTIVITY

Chemical Stability: Stable at room temperature.
Conditions 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

Comply with national and local regulations. See section 7 above – “Handling & Storage”

15. REGULATORY INFORMATION

None

16. OTHER INFORMATION

None

This Material Safety Data Sheet is produced from information supplied by Pentel Co Ltd, 7-2 Koami-cho, Nihonbashi Chuo-Ku, Tokyo, Japan.

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Pentel Co Ltd, Tokyo, Japan and Pentel (Stationery) Ltd, Swindon. It 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, Tokyo and Pentel (Stationery) Ltd, Swindon assume no legal responsibility for use of or reliance upon this information.