

REVISED VERSION – NOVEMBER 2006**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
Fax. No. 01793 820055

2. COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk/safety phrases see section 15.

Hazardous substances present on their own:

No hazardous substances present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state.

Other substances representing a hazard:

<u>Chemical Name</u>	<u>Concentration</u>	<u>CAS No</u>	<u>EC No.</u>
Xylene	45-71%	1330-20-7	215-535-7
Isobutyl Alcohol ⁽¹⁾	3-15%	78-83-1	201-148-0
Ethylene Glycol Monoethyl Ether ⁽²⁾	6-15%	110-80-5	203-804-1
Ethylene Glycol Monopheryl Ether ⁽³⁾	3%	122-99-6	

Risk nos. 10/20/21/22/37/38/41/60/61/67

- (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

No other substances present with occupational exposure limits.

3. **HAZARDS IDENTIFICATION**

Flammable/harmful by inhalation and in contact with skin/vapours may cause drowsiness and dizziness/may impair fertility.

The ink contained inside the marker contains some flammable chemical, however, the ink is not in a liquid form, but contained within a fibre tampon, and is unlikely to pose a flammable hazard under normal usage.

THERE ARE NO OTHER SPECIFIC HAZARDS

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**

Bulk releases are not anticipated under normal usage conditions.

Personal precautions; use in well-ventilated area/avoid inhalation of vapours/avoid contact with Skin and eyes.

Cleaning; use a detergent rather than solvents.

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.
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Personal Protective Equipment:

Eyes:	No special equipment is needed.
Skin:	No special equipment is needed.
Respiratory:	No special equipment is needed.
Exposure Limits;	Xylene; TWA 8 hours 50ppm STEL 15mins 100ppm Isobutyl Alcohol; TWA 8 hours 50ppm STEL 15 mins 75ppm Ethylene Glycol... TWA 8 hours 10ppm STEL 15 mins.

9. **PHYSICAL & CHEMICAL PROPERTIES**

Physical State:	Interior – tampon-soaked ink
Appearance:	Metal barrel marker
Colour:	Up to 11 ink colours available
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 40C. Store away from sources of ignition, heat and direct sunlight.

11. **TOXOLOGICAL INFORMATION**

No data available regarding the preparation itself.

Eye effects; may cause irritation if ink comes into contact with eyes.

Skin effects; Unlikely to cause irritation if applied under normal usage.

Chronic effects; may cause harm to respiratory system if used continuously above the exposure limits shown under (8).

Carcinogenicity; Animal carcinogen (Isobutanol only)

12. **ECOLOGICAL INFORMATION**

No harmful effects.

13. **DISPOSAL CONSIDERATIONS**

Comply with local and national regulations – do not dispose of used markers into sewers, ground or any body of water.

14. **TRANSPORT INFORMATION**

Comply with local and national regulations.

Transport product in compliance with the provisions of ADR for road, RID for rail, IMDG for sea, and ICAO/IATA for air transport.

UN 1993=FLAMMABLE LIQUID N.O.S. (Xylene Hazchem 3Y)(Isobutanol Hazchem 3Y)

15. REGULATORY INFORMATION

This preparation is classified in compliance with directive 2004/73/EC

The preparation is classified as; flammable/irritant/harmful by inhalation.

Risk Phrases applicable to the preparation;

R10 Flammable

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

R37/38 Irritating to respiratory system and skin

R41 risk of damage to eyes

R60/61 may impair fertility/cause harm to the unborn child

R67vapours may cause drowsiness and headache

Safety phrases applicable to the preparation;

S2 Keep out of reach of children

S7/9 Keep marker cap on when not in use/use in well-ventilated area

S13 Keep away from food in use

S25/26 Avoid contact with eyes/if eyes in contact with ink, rinse immediately with plenty of water, and seek medical advice

S45/46 If swallowed or unwell, seek medical advice – show the product to the medical expert

16. OTHER INFORMATION

It is the responsibility of the user to take all necessary measures to comply with local, national and European regulations and requirements.

All information given should be viewed as a description of safety and risk in normal use, and not be seen as a guarantee of the product properties.

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

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Revised November 2006