

# Safety Data Sheet

Issued 10-20-2015

## Ball Point Pen Inks – For BK440 and BK 450 Black, Red and Blue Pens

### 01 Identification of the substance / preparation and of the company

**Product:** Ball Point Pen BK440 and BK450 Pens  
**Use:** Writing  
**Company:** Pentel of America, LTD.  
2715 Columbia Street  
Torrance Ca. 90503  
**Phone:** 909.975.2238  
**Fax:** 909.975.2291  
**Emergency phone:** +91-98251-22225 **Contact:** Michael Storie, TQC Manager  
**Email:** mstorie@pentel.com

### 02 Composition / Information on ingredients

Substance	CAS NO	Symbol/R-phr	[%]
2 Phenoxy Ethanol	122-99-6	Xn R-22-36	~30%
Benzyl Alcohol	100-51-6	Xn R-20/22	~15%
Resin	25054-06-2	N.A.	~35%
Oleic Acid / Similar	112-80-1	N.A.	~10%
Solvent Red - 39	65138-66-1	Xn R- 22	~12%
Solvent Black-46	65113-55-5	Xn R- 22	~20%
Solvent Orange-3	495-54-5	Xn R- 22	~.8%
Solvent Blue-4	6786-83-0	Xn R- 22	~3%
Polyvinyl Pyrrolidone	9003-39-8	N.A.	~4%
4, 4'-Bis(dimethyl amineo)-4 1	561-41-1	N.A.	~10%
Solvent Violet - 8	52080-58-7	Xn R- 22-41	~5%

### 03 Hazards identification



Xn Harmful

R-22 Harmful if swallowed  
R-38 Irritating to skin  
R-41 Risk of serious damage to eyes.

**Classification method:** The classification is according to EU-Lists and by company product literature data.

### 04 First aid measures

**General information** Change soaked clothing & after an accident see for a medical observation.  
**Inhalation** Ensure supply of fresh air. In the event of symptoms refer for medical treatment  
**Skin contact** In case of contact with skin wash off immediately with soap and water.  
**Eye contact** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
**Ingestion** Summon a doctor immediately.

### 05 Fire-fighting measures

**Suitable extinguishing media** Foam. Dry powder. Water spray jet. Carbon dioxide, Alcohol Foam Resistant.  
**Special protective equipment for firefighters** No special measures required.  
**Additional information** Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations

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**06 Accidental release measures**

<b>Personal precautions</b>	Ensure adequate ventilation. Keep away sources of ignition. High risk of slipping due to leakage/spillage of product.
<b>Environmental precautions</b>	Do not discharge into the drains/ surface waters/ groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers)
<b>Methods for cleaning up/taking up</b>	Take up with absorbent material (e.g. Sand, Dry clay, Vermiculate, Wipe up small spills with cloth). Dispose of absorbed material in accordance with the regulation.

**07 Handling and storage**

- \* **Handling:**
- \* **Information for safe handling:**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- \* **Information about fire – and explosion protection:** No special measures required.
- \* **Storage:**
- \* **Requirements to be met by storerooms and receptacles:** No special requirements.
- \* **Information about storage in one common storage facility:** Not required.
- \* **Further information about storage conditions:** None

**08 Exposure controls / personal protection**

Ensure adequate ventilation on workstation.

<b>Respiratory protection</b>	Use Protective Mask.
<b>Hand protection</b>	Protective gloves should be used.
<b>Eye protection</b>	Safety glasses to avoid the possibility of splashing in the eyes.
<b>Skin protection</b>	Avoid contact with the skin.
<b>General protective measures</b>	Do not inhale vapors. Avoid contact with eyes and skin.
<b>Hygiene measures</b>	At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Use barrier skin cream.

**Ball Point Pen Inks – For BK440 and BK 450 Black, Red and Blue Pens****09 Physical and chemical properties**

<b>Form:</b>	Liquid./Paste	<b>Vapor pressure [kPa]:</b>	Not established
<b>Color:</b>	<b>Black, Red, Blue</b>	<b>Density</b>	1.12 +/- 0.3g/cm <sup>3</sup>
<b>Odor:</b>	Characteristic	<b>Solubility in water:</b>	Insoluble/Difficult to Mix.
<b>pH-value @ R. Temp</b>	6 - 8	<b>Viscosity:</b>	18125~20,000 ± 1000 cps
<b>Boiling point [°C]:</b>	> 190° C	<b>Relative vapor density</b>	Not Established
<b>Flash point [°C]:</b>	> 94° C	<b>Determined in air:</b>	
<b>Ignition Temp.</b>	> 230° C	<b>Melting point [°C]:</b>	Not determined.
<b>Lower explosion limit:</b>	1.5 Vol.%	<b>Auto-ignition temperature</b>	No self- ignition.
<b>Upper explosion limit:</b>	12 Vol.%		
<b>Combustible properties:</b>	No.		

**10 Stability and reactivity****\* Thermal decomposition / conditions to be avoided:**

No decomposition If used according to specifications.

**\* Dangerous reactions** No dangerous reactions known.**\* Dangerous decomposition products:** No dangerous decomposition products known.**11 Toxicological information****\* Acute toxicity:****\* LD/LC50 values relevant for classification:****122-99-6 2-Phenoxyethanol**

Oral	LD50	1980 mg/kg (Rat)
Benzyl Alcohol	LD 50	1230 mg/kg (Rat)

**Primary irritant effect:**

**\* On the skin:** Irritant to skin and mucous membranes.

**\* On the eye:** Strong irritant with the danger of severe eye injury.

**\* Sensitization:** No sensitizing effects known.

**\* Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for preparations as issued in the latest version:

**Harmful**

**Irritant**

**12 Ecological information****General information**

Do not allow product to reach ground water course or sewage system, even in small quantity, Danger to Drinking water if even extremely small quantities leak in to the Ground.  
Also poisonous for fish & plankton in water bodies.  
Toxic for water bodies.

**13 Disposal considerations****Disposal / Product**

Disposal in accordance with the regulations of the local authorities.

**Waste no. (recommended)****\* European waste catalogue**

08 00 00	WASTE FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VERNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	Wastes from MFSU and removal of paint and varnish
08 01 13	Sludge's from paint or varnish containing organic solvents or other dangerous substances.

**Disposal / Contaminated packaging** Uncontaminated packaging may be taken for recycling & contaminated packing should be disposed as per local regulations.

**14 Transport information**

**Classification according to** Not classified as dangerous in the meaning of transport regulations.

\* Land Transport ADR/RID (cross – border)  
 \* ADR/RID Class: -

\* Maritime transport IMDG:  
 \* IMDG Class: -  
 \* Marine pollutant: No

\* Air transport ICAO-TI and IATA – DGR:  
 \* ICAO/IATA Class: -  
 \* Packaging group: Not applicable

**15 Regulatory information**

**15.1**

**\* Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**\* Code letter and hazard designation of product:**



Xn Harmful

**\* Hazard –determining components of labeling:**

2-Phenoxyethanol,  
 Solvent Orange-3

**\* Risk phrases:**

22 Harmful if swallowed  
 38 Irritating to skin  
 41 Risk of serious damage to eyes.  
 43 May cause sensitisation by skin contact.

**\* Safety phrases:**

2 Keep out of the reach of children.  
 24 / 25 Avoid contact with skin and eyes.  
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
 46 If swallowed, seek medical advice immediately and show this container or label.

**15.2 National regulations(gb)**

**\* National regulations:**

**\* Technical instructions (air):**

Class	Share in %
NK	36,9

**15.3 Water hazard class:**

Water hazard class 3 (Self – assessment) : extremely hazardous for water.

**16 Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Note that this information is for the Materials used in the Manufacturing process and is not required for the product produced.