

**Material Safety Data Sheet 91/155/EEC**

**Ball Point Pen Inks – B-222 Ink V-Blue**

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

**Product:** Ball Point Pen Ink  
**Use:** Writing  
**Company:** HI SHINE INKS PVT. LTD.  
 C-1/202 - 205, G.I.D.C, ANTALIA – 396325.  
 BILIMORA (GUJ.) INDIA.  
**Phone:** +91-2634 284258, 282536  
**Fax:** +91-2634 283093  
**Emergency phone:** +91-98251-22225 **Mr. Jitendra Panwala**

**02 Composition / Information on ingredients**

Substance	CAS NO	Symbol/R-phr	Range [%]
2 Phenoxy Ethanol	122-99-6	Xn R-22-36	20 - 40%
Benzyl Alcohol	100-51-6	Xn R-20/22	5 - 10%
Resin	25054-06-2	N.A.	20 - 40%
Oleic Acid / Similar	112-80-1	N.A.	5 - 10%
Soln.Violet-8	52080-58-7	Xn R-22-41	3 - 10%
Soln.Blue-4	6786-83-0	Xn R-22	3 - 10%

**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 vapours. 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.

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09 Physical and chemical properties			
<b>Form:</b>	Liquid./Paste	<b>Vapour pressure [kPa]:</b>	Not established
<b>Colour:</b>	Blue	<b>Density</b>	Not determined
<b>Odour:</b>	Characteristic	<b>Solubility in water:</b>	Insoluble/Difficult to Mix.
<b>pH-value @ R. Temp</b>	6 - 8	<b>Viscosity:</b>	22,500 cps
<b>Boiling point [°C]:</b>	> 190° C	<b>Relative vapour 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>Autoignition temperature</b>	Not self ignition.
<b>Upper explosion limit:</b>	12 Vol.%		
<b>Combustible properties:</b>	No.		

10 Stability and reactivity	
* <b>Thermal decomposition / conditions to be avoided:</b> No decomposition if used according to specifications.	
* <b>Dangerous reactions</b> No dangerous reactions known.	
* <b>Dangerous decomposition products:</b> No dangerous decomposition products known.	

11 Toxicological information		
* <b>Acute toxicity:</b>		
* <b>LD/LC50 values relevant for classification:</b>		
122-99-6 2-Phenoxyethanol		
Oral	LD50	1980 mg/kg (Ratte)
Benzylalcohol	LD 50	1230 mg/kg (Ratte)

**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	
<b>General information</b>	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	
<b>Disposal / Product</b>	Disposal in accordance with the regulations of the local authorities.
<b>Waste no. (recommended)</b>	

* 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	Sludges 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.

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**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

**\* 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 Informations**

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.

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Applicant:

Address:

Test site: 1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

## Report on the submitted samples said to be:

Sample Name : Pen holder with magnet  
Model No. : AI-3553  
Item No. : 9162  
Country of Origin : India  
Country of Destination : EUROPE  
Sample Receiving Date : Oct.21, 2019  
Testing Period : Oct.21, 2019 to Jan.08, 2020

**Test Requested:** : Please refer to next page(s).

**Test Method** : Please refer to next page(s).

**Test Result** : Please refer to next page(s).

Approved by:   
Liulinwen, Lewis  
Technical Director



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

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## Test Requested:

1. As specified by client, to determine the Cadmium(Cd)content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
2. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.
3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.

## Conclusion

Pass

Pass

Pass

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**Test Result(s):**
**1. Test Result(s) of Cd content**

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-1	1-2	1-3	1-4	
<b>Cadmium (Cd)</b>	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	N.D.	100
<b>Conclusion</b>	ICP-OES	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-5	1-6	1-7	
<b>Cadmium (Cd)</b>	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	100
<b>Conclusion</b>	ICP-OES	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  3. As specified by client, only test the designated sample

**2. Test Result(s) of Polycyclic Aromatic Hydrocarbons (PAHs)**

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)	Limit
			1-1	
Benzo[a]anthracene (BaA)	AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	1
Chrysene (CHR)		0.1	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	1
Dibenzo[a,h]anthracene (DBaHA)		0.1	N.D.	1
<b>Sum of 8 PAHs</b>		—	N.D.	—
<b>Conclusion</b>		/	<b>Pass</b>	/

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- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  3. “—”=Not regulated
  4. As specified by client, only test the designated sample.

### 3. Test Result(s) of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			1-1	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	0.1
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	-
Di-isononyl phthalate (DINP)		0.01	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	0.1
<b>Conclusion</b>			/	<b>Pass</b>

- Note:**
1. 0.1%,w/w =1000mg/kg
  2. MDL=method detection limit
  3. N.D.=not detected (less than method detection limit)
  4. “—” =Not regulated
  5. As specified by client, only test the designated sample

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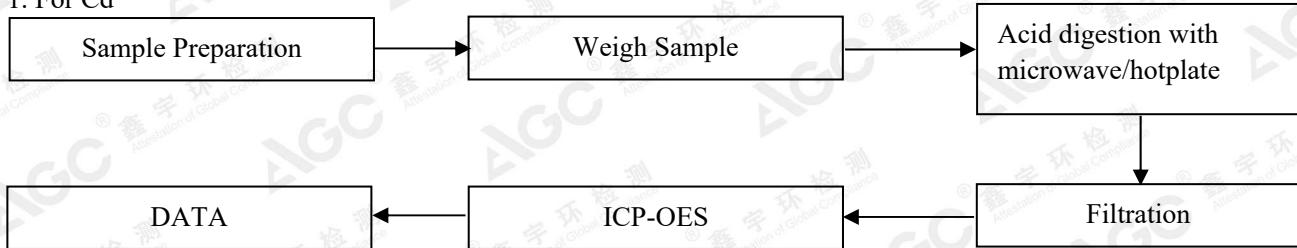
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## Sample Description

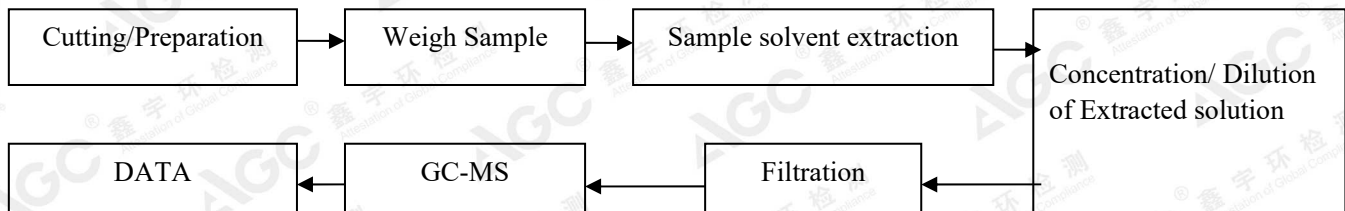
1-1	Black plastic seat
1-2	Spring
1-3	Metal pen body
1-4	Metal clip
1-5	Metal written
1-6	Black plastic tube (inside)
1-7	Blue plastic (inside)

## Test Flow Chart

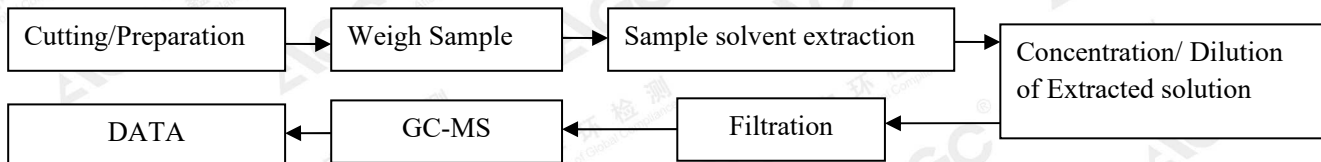
### 1. For Cd



### 2. For PAHs



### 3. For phthalates



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## The photo of the sample



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\*\*\* End of Report\*\*\*

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