



Material Safety Data Sheet

Ball pen ink

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Issue date: 2007-8-3

MATERIAL SAFETY DATA SHEET

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Remarks:

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Approval by: CAIXIA SHAO

Date:08/03/2007



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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ball pen ink

Supplier Information

Company Name:

Address:

Tel:

Fax:

Emergency Telephone:

E-mail:

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation

Ingredients Name	Content/%	CAS NO.	EC NO.	RISK PHRASES
Basic Brilliant Blue B	15-25	2580-56-5	219-943-6	
Basic Rhodamine B	15-25	81-88-9	201-383-9	Xn R22; R41; R68
Alkyd resin	25-30	68459-31-4	-	
PVP resin	0.3-0.8	9003-39-8	-	
Ethylene glycol monophenyl ether	5-10	122-99-6	204-589-7	Xn; R22-Xi; R36
Benzyl alcohol	20-25	100-51-6	202-859-9	Xn, R20/22

Note: See Section 8 of MSDS for exposure limit data for these ingredients. Full text of risk phrases appearing in section 2: see section 16.

3. HAZARDS IDENTIFICATION

Emergency Overview blue liquid without mild odor, non-hazardous

Primary Route(s) of Exposure: Eye contact, skin contact, inhalation and ingestion.

Potential Health Effects

Acute (short term): May cause mild eye irritation.

Chronic (long term): There is no known health effects connected with long term use or contact with this product. See



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Section 11 of MSDS for more toxicological data.

4. FIRST AID MEASURES

INHALATION: It is unlikely that emergency treatment will be required under normal use conditions.

SKIN CONTACT: Wash with soap or mild detergent and large amounts of water.

EYE CONTACT: Wash with large amounts of tepid water. If irritation persists, consult a physician.

INGESTION: Unlikely to happen. If a large amount is ingested (several pens), seek medical attention.

NOTES TO PHYSICIAN: Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT

93 °C(close cup)

FLAMMABLE LIMITS

LFL: Not Applicable

UFL: Not Applicable

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide

UNUSUAL FIRE AND EXPLOSION HAZARDS: May produce hazardous decomposition products.

SPECIAL FIRE FIGHTING PROCEDURES: In fires involving large quantities, use self-contained breathing apparatus. Cool fire-exposed containers with water spray/fog.

6. ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEANING UP

Wipe up with absorbent materials.



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7. HANDLING AND STORAGE

General: No special handling procedures are required for this material.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure guidelines

Ingredients Name	OEL
PVP resin (9003-39-8)	- OSHA Permissible Exposure Limit (PEL): 15 mg/m ³ total dust, 5 mg/m ³ respirable fraction for nuisance dusts. - ACGIH Threshold Limit Value (TLV): 10 mg/m ³ total dust containing no asbestos and < 1% crystalline silica for Particulates Not Otherwise Classified (PNOC).
Benzyl alcohol (100-51-6)	AIHA Workplace Environmental Exposure Level (WEEL): 10 ppm, 8-hour, TWA

VENTILATION:

Based on available information, additional ventilation is not required.

EYE PROTECTION:

Eye protection not required under normal conditions.

CLOTHING:

Protective clothing is not required under normal conditions.

GLOVES:

Protective gloves are not required under normal conditions.

RESPIRATOR:

No respirator is required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:

sticky liquid paste

COLOR:

blue

ODOR:

mild odor

BOILING POINT:

Not applicable



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MELTING POINT:	Not available
FLASH POINT:	93°C
VAPOR PRESSURE:	Not applicable
VAPOR DENSITY:	Not applicable
SPECIFIC GRAVITY:	>1
WATER SOLUBILITY:	insoluble
PH:	Not applicable
VOLATILITY:	Not applicable
ODOR THRESHOLD:	Not available
EVAPORATION RATE:	Not applicable
COEFFICIENT OF WATER/OIL DISTRIBUTION:	Not available

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and handling.
Materials to avoid:	None know.
Conditions to avoid:	None know.
Hazardous decomposition products:	May product oxides of carbon, nitrogen, and various hydrocarbons in fire.
Hazardous polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data

No toxicity data available for this product. But for ingredients:

Rhodamine B (81-88-9)	Oral mouse LD50: 887 mg/kg; investigated as a mutagen, tumorigen, reproductive effector
PVP resin (9003-39-8)	RTECS#: TR8160000; TR8170000; TR8180000; TR8250000; TR8300000; TR8350000; TR8360000; TR8370000 LD50/LC50: Oral, mouse: LD50 = >40 gm/kg; Oral, rabbit: LD50 = 1040 mg/kg; Oral, rat: LD50 = 100 gm/kg;
2-phenoxyethanol (122-99-6)	Oral LD50 933 mg/kg (mou) 1260 mg/kg (rat)
Benzyl alcohol (100-51-6)	Oral LD50 1230 mg/kg (rat) Dermal LD50 2000 mg/kg (rabbit)



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Carcinogenicity

Rhodamine B (81-88-9) There is limited evidence that this material causes cancer in laboratory animals. There is no evidence that this material causes cancer in humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not determined.
Mobility: Not determined.
Biodegradability: Not determined
Bioaccumulation: Not determined

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

Proper shipping name: Not regulated
Hazard class: None
Packing group: None
Identification number: None
ADR/RID: This product is not regulated for transportation.
IMDG: This product is not regulated for transportation.
IATA: This product is not regulated for transportation.

15. REGULATORY INFORMATION

European Labeling in Accordance with EC Directives

Hazard Symbols: -



Xn: harmful

Risk Phrases: -

R20/22 Harmful by inhalation and if swallowed.

R36 Irritating to eyes.



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R41 Risk of serious damage to eyes.

R68 Possible risk of irreversible effects.

Safety Phrases: -

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Inventory Status

Inventory

Status

United States (TSCA)

All ingredients are on the inventory or exempt from listing.

16. OTHER INFORMATION

Risk phrases in section 2:

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R 41 Risk of serious damage to eyes.

R 68 Possible risk of irreversible effects.

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*** END OF MSDS ***