

Safety Data Sheet
According to Hazard Communication Standard (29 CFR 1910.1200)

Ball pen ink Blue

Issue date: 01/19/2015

Version 1.0

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1. Product and Company Identification

Material name Ball pen ink Blue
CAS # See section 3
Product code -
Product use Not available.

Manufacturer/Supplier

Supplier(Manufacturer):

Address:

Contact person(E-mail):

Telephone:

Fax:

Emergency telephone Number:

2. Hazards identification

GHS classification

Physical hazards	Not classified	
Health hazards	Acute toxicity- Oral	Category 4
	skin corrosion/irritation	Category 2
	Skin sensitization	Category 1
	serious eye damage/eye irritation	Category 2
Environmental hazards	Not classified	

GHS label elements

Hazard Pictograms



Signal word

Warning

Hazard statement

Harmful if swallowed
Causes skin irritation
May cause an allergic skin reaction
Causes serious eye irritation

Precautionary statement

Prevention

Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Rinse mouth.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Wash contaminated clothing before reuse.

Storage

Not applicable.

Disposal

Dispose of contents/container in according with local regulation.

3. Composition / Information on Ingredients

Components	CAS#	Percent
2-Phenoxy Ethanol	122-99-6	25%
Benzyl alcohol	100-51-6	15%
BX	147-14-8	15%
Solvent blue 4	6786-83-0	15%
1,2-propanediol	4254-14-2	10%
Keton resin	25054-06-2	10%
Castor oil resin	66070-88-0	5%
Triethanolamine	102-71-6	4%
Phosphoric acid ester	90506-69-7	1%

4. First Aid Measures

First aid procedures

Eye contact

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

Skin contact

Wash thoroughly with soap and water.

Inhalation

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel.

Ingestion

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Notes to physician

Treat symptoms.

5. Fire Fighting Measure

Flammable properties

This product is non-flammable.

Extinguishing media

Suitable extinguishing media

Water, dry extinguishing media, carbon dioxide, alcohol resistant foams.

Unsuitable extinguishing media

Direct water stream.

Firefighting equipment/instructions

In the event of fire, wear self-contained breathing apparatus.

Hazardous combustion products

None Special hazards caused by the substance.

6. Accidental Release Measures

Personal precautions

Ensure good ventilation/exhaustion at the workplace.

Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface

waters/groundwater.

Methods for cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dispose of absorbed material in accordance with regulations.

7. Handling and Storage

Handling

Prevent contact with air/oxygen (formation of peroxide). General Handling: Do not swallow. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. Exposure Controls / Personal Protection

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold Limit Values (TLV)	Triethanolamine	Triethanolamine	5 mg/m3	Not Available	Not Available	TLV® Basis: Eye & skin irr; BEIA
US OSHA Permissible Exposure Levels (PELs) - Table Z1	BX	Copper - Fume / Copper	0.1 mg/m3 / 1 mg/m3	Not Available	Not Available	(as Cu) / (as Cu);Dusts and mists

EMERGENCY LIMITS

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Benzyl alcohol	Benzyl alcohol	30 ppm	49 ppm	49 ppm
2-Phenoxy Ethanol	Phenoxyethanol, 2-; (Phenyl cellosolve)	20 ppm	20 ppm	44 ppm
triethanolamine	Triethanolamine; (Trihydroxytriethylamine)	15 mg/m3	51 mg/m3	1100 mg/m3

Ingredient	Original IDLH	Revised IDLH
2-Phenoxy Ethanol	Not Available	Not Available
Benzyl alcohol	Not Available	Not Available
BX	Not Available	Not Available
Solvent blue 4	Not Available	Not Available
1,2-propanediol	Not Available	Not Available
Keton resin	Not Available	Not Available
Castor oil resin	Not Available	Not Available
Triethanolamine	Not Available	Not Available
Phosphoric acid ester	Not Available	Not Available

Personal protective equipment

Eye / face protection

Safety glasses with side shields. Chemical goggles.

Skin protection

Wear chemical protective gloves, e.g. PVC.

Respiratory protection

Wear appropriate protective mask.

General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

9. Physical & Chemical Properties

Appearance

Physical state	Liquid
Form	Liquid
Color	Blue
Odor	Not available
Odor threshold	Not available
pH	Not available
Vapor pressure	0.014 hPa(20 °C) (CAS#122-99-6)
Vapor density	Not available
Boiling point	244.3 °C (CAS#122-99-6)
Melting point/Freezing point	11.8 °C (CAS#122-99-6)
Solubility (water)	24.2 g/L(20.7 °C pH=5.5) (CAS#122-99-6)
Specific gravity	Not available
Relative density	1.11(20 °C) (CAS#122-99-6)
Density	Not available
Flash point	126 °C (CAS#122-99-6)
Flammability limits in air, upper, %by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Auto-ignition temperature	475 °C (CAS#122-99-6)
VOC	Not available
Percent volatile	Not available
Other data	
Viscosity	19 mPa s (dynamic)(40.5 °C) (CAS#122-99-6)
Partition coefficient(log Pow)	1.2 (23 °C) (CAS#122-99-6)
Decomposition temperature	> 350 °C(CAS#122-99-6)
Surface tension	70.7 mN/m(CAS#122-99-6)

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Incompatible materials.
Incompatible materials	Strong acids. Strong bases. Strong oxidizers.
Hazardous decomposition products	Not available.
Possibility of hazardous reactions	No dangerous reactions known.

11. Toxicological Information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data:	Not available
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Information on toxicological effects:

Acute toxicity:

2-Phenoxy Ethanol (CAS#122-99-6)

LD50(Oral, Rat): 1850 mg/kg bw
LD50(Dermal, Rabbit): Not available
LC50(Inhalation, Rat): > 1000 mg/m³ air
 Benzyl alcohol (CAS#100-51-6)
LD50(Oral, Rat): 1620 mg/kg bw
LD50(Dermal, Rabbit): Not available
LC50(Inhalation, Rat): > 4178 mg/m³ air 4h
 Triethanolamine (CAS#102-71-6)
LD50(Oral, Rat): 6400 mg/kg bw
LD50(Dermal, Rabbit): > 2000 mg/kg bw
LC50(Inhalation, Rat): Not available
Skin corrosion/Irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT- single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

12. Ecological Information

Toxicity:

2-Phenoxy Ethanol (CAS#122-99-6)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	344 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	> 500 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	> 500 mg/L	72h	Algae	OECD 201	N/A	N/A

Benzyl alcohol (CAS#100-51-6)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	460 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	230 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	770 mg/L	72h	Algae	OECD 201	N/A	N/A

Triethanolamine (CAS#102-71-6)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	11800 mg/L	96h	Fish	OECD 203	N/A	N/A
EC50	609.88 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	512 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Not available.
Results of PBT&vPvB assessment: Not available.
Other adverse effects: No known significant effects or critical hazards.

13. Disposal Considerations

Disposal instructions

Dispose of contents/container in accordance with local/regional/national/international regulations.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number	Not regulated
Proper shipping name	Not regulated
Hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	No

IATA

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated

IMDG

UN number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class(es)	Not regulated
Packing group	Not regulated
Environmental hazards	No

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

2-Phenoxy Ethanol(122-99-6) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
Benzyl alcohol(100-51-6) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
BX (147-14-8) is found on the following regulatory lists	"US - Idaho - Limits for Air Contaminants", "US - Hawaii Air Contaminant Limits", "US -Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values", "US Toxic Substances Control Act (TSCA) -Chemical Substance Inventory"
Solvent blue 4 (6786-83-0) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
1,2-propanediol (4254-14-2) is found on the following regulatory lists	"US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)", "US - Washington Toxic air pollutants and their ASIL,SQER and de minimis emission values", "US Spacecraft Maximum Allowable Concentrations (SMACs) for Airborne Contaminants", "US Toxic Substances Control Act (TSCA) -Chemical Substance Inventory"
Keton resin (25054-06-2) is found on the	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"

following regulatory lists	
Castor oil resin (66070-88-0) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
Triethanolamine (102-71-6) is found on the following regulatory lists	"US ACGIH Threshold Limit Values (TLV)", "US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
Phosphoric acid ester (90506-69-7) is found on the following regulatory lists	"Not Applicable"

16. Other Information

HMIS® ratings

Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings

Health: 1
Flammability: 1
Instability: 0

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

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