

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

Ball pen ink Black

Issue date: 01/19/2015

Version 1.0

Revision date: 01/19/2015

1. Product and Company Identification

Material name Ball pen ink Black

CAS # See section 3

Product code -

Product use Not available.

Manufacturer/Supplier

Supplier(Manufacturer):

Address:

Contact person(E-mail):

Telephone:

Fax:

15962550010

Emergency telephone Number: +86-512 63338058

2. Hazards identification

GHS classification

Physical hazards Not classified

Health hazards Acute toxicity- Oral Category 4

skin corrosion/irritation Category 2

skin sensitisation Category1

serious eye damage/eye irritation Category1

specific target organ toxicity after single exposure Category 3

Environmental hazards hazardous to the aquatic environment- CHRONIC Category 1

GHS label elements

Hazard Pictograms



Signal word

Danger

Hazard statement

Harmful if swallowed

Causes skin irritation

May cause an allergic skin reaction

Causes serious eye damage

May cause respiratory irritation

Very toxic to aquatic life with long lasting effects

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.

Use only outdoors or in a well-ventilated area.

Response

Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
Wash contaminated clothing before reuse.
Collect spillage.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in according with local regulation.

Storage**Disposal****3. Composition / Information on Ingredients**

Components	CAS#	Percent
Solvent black 46	65113-55-5	30%
Benzyl alcohol	100-51-6	25%
2-Phenoxy Ethanol	122-99-6	20%
Keton resin	25054-06-2	14%
Epoxy resin	24969-06-0	6%
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

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MSDS US

2 / 7

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

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
Solvent black 46	Not Available	Not Available
Benzyl alcohol	Not Available	Not Available
2-Phenoxy Ethanol	Not Available	Not Available
Keton resin	Not Available	Not Available
Epoxy 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	Black
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

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

Solvent black46 (CAS#65113-55-5)

LD50(Oral, Rat): > 2000 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 damage.

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: May cause respiratory irritation.

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

Solvent black46 (CAS#65113-55-5)

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	0.011 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	0.0034 mg/L	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not available.

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Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Results of PBT&vPvB assessment:	Not available.
Other adverse effects:	Very toxic to aquatic life with long lasting effects.

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	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S(Solvent black46)
Hazard class	9
Packing group	III
Environmental hazards	Yes

IATA

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S(Solvent black46)
Transport hazard class(es)	9
Packing group	III

IMDG

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S(Solvent black46)
Transport hazard class(es)	9
Packing group	III
Environmental hazards	Yes

15. Regulatory Information

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

Solvent black 46 (65113-55-5) 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"
2-Phenoxy Ethanol(122-99-6) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
Keton resin (25054-06-2) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
Epoxy resin(24969-06-0) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory"
Triethanolamine (102-71-6) is found on	"US ACGIH Threshold Limit Values (TLV)",

the following regulatory lists	"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: 2
 Flammability: 1
 Physical hazard: 0

NFPA ratings

Health: 2
 Flammability: 1
 Instability: 0

Disclaimer

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

Issue date

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