

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 2015/830)

Version 1

Product Name BALLPEN INKS BLACK

Issue Date 26-Oct-2016

Revision date 26-Oct-2016

SECTION 1: Identification of the substance /mixture and of the company/undertaking

1.1. Product identifier

Product Name Ballpen inks black
REACH registration number No information available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Ballpen ink
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Suzhou Xiongying Ink Technology Co., Ltd
Address Yunli road NO539 economic development zone of wujiang city jiangsu province
China
Postal Code 215217
Phone +86-512-63331385
FAX +86-512-63320778
E-mail zhangshenghong001@126.com

Importer
Address
Postal Code
Phone
FAX
E-mail

1.4. Emergency telephone number

+86-512-63331385

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Serious eye damage/eye irritation Category 2 - (H319)

2.2. Label elements

Symbols/Pictograms



Signal word Warning
Hazard Statements H319 - Causes serious eye irritation
Precautionary Statements P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
EU Specific Hazard Statements None.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.1 Mixture**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Solvent black 46	265-449-9	65113-55-5	30	Not classified
Benzyl alcohol	202-859-9	100-51-6	25	Acute Tox. 4 (H332) Eye Irrit. 2 (H319)
2-Phenoxy Ethanol	204-589-7	122-99-6	20	Eye Irrit. 2 (H319)
Keton resin	607-515-5	25054-06-2	14	Not classified
Epoxy resin	607-468-0	24969-06-0	6	Not classified
Triethanolamine	203-049-8	102-71-6	4	Not classified
Phosphoric acid ester	291-933-4	90506-69-7	1	Not classified

SECTION 4: First aid measures**4.1. Description of first aid measures General advice**

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

First aider: Pay attention to self-protection. Use personal protection recommended in Section 8.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

6.4. Reference to other sections

See Section 7 for more information

See section 8 for more information

See section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
2-Phenoxy Ethanol (CAS #: 122-99-6)	-	Skin STEL 20 ppm STEL 110 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³ Ceiling 20 ppm Ceiling 110 mg/m ³	-	-	-
Triethanolamine (CAS #: 102-71-6)	5 mg/m ³	STEL 1.6 ppm STEL 10 mg/m ³ TWA: 0.8 ppm TWA: 5 mg/m ³	-	TWA: 0.5 ppm TWA: 3.1 mg/m ³	-

Chemical Name	Latvia	France	Finland	Germany	Italy
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Benzyl alcohol (CAS #: 100-51-6)	TWA: 5 mg/m ³	-	TWA: 10 ppm TWA: 45 mg/m ³	-	-
2-Phenoxy Ethanol (CAS #: 122-99-6)		-	TWA: 20 ppm TWA: 110 mg/m ³ STEL: 50 ppm STEL: 290 mg/m ³ Skin	TWA: 20 ppm TWA: 110 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 220 mg/m ³ Skin	-
Triethanolamine (CAS #: 102-71-6)		-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Ceiling / Peak: 20 mg/m ³	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Benzyl alcohol (CAS #: 100-51-6)	TWA: 240 mg/m ³	-	-	-	-
2-Phenoxy Ethanol (CAS #: 122-99-6)	TWA: 230 mg/m ³	-	-	Skin STEL: 40 ppm STEL: 220 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine (CAS #: 102-71-6)	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	TWA: 5 mg/m ³	-	-

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Controls**

Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand Protection	Wear protective gloves.
Skin and body protection	Suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	None under normal processing

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Color	black
Odor	No information available
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Explosive limits	Not determined

Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

9.2. Other information

No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological effects Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol (CAS #: 100-51-6)	= 1230 mg/kg (Rat) 1.55 mL/kg bw(Rat) male mL/kg bw (Rat)	= 2 g/kg (Rabbit) < 5000 mg/kg bw (Guinea pig)	= 8.8 mg/L 4h (Rat) > 4178 mg/m ³ air 4h(Rat)
2-Phenoxy Ethanol (CAS #: 122-99-6)	= 1260 mg/kg (Rat)	= 5 mL/kg (Rabbit)	-
Triethanolamine (CAS #: 102-71-6)	= 4190 mg/kg (Rat)	> 16 mL/kg (Rat) > 20 mL/kg (Rabbit)	-

Skin corrosion/irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Sensitization

No sensitization responses were observed.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical Name	European Union	IARC
Triethanolamine (CAS #: 102-71-6)	-	Group 3

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Benzyl alcohol (CAS #: 100-51-6)	35mg/L 3 h Anabaena variabilis mg/L mg/L 72h Pseudokirchnerella subcapitata mg/L 72h Pseudokirchnerella subcapitata	460 mg/L 96 h Pimephales promelas static 10 mg/L 96 h Lepomis macrochirus static 770 mg/L 1h 24h 48h Pimephales promelas 460 mg/L 72h 96h Pimephales promelas	23 mg/L 48 h water flea 230 mg/L 48h Daphnia magna
2-Phenoxy Ethanol (CAS #: 122-99-6)	500: 72 h Desmodesmus subspicatus mg/L EC50	337 - 352: 96 h Pimephales promelas mg/L LC50 flow-through 366: 96 h Pimephales promelas mg/L LC50 static 220 - 460: 96 h Leuciscus idus mg/L LC50 static	500: 48 h Daphnia magna mg/L EC50
Triethanolamine (CAS #: 102-71-6)	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
Benzyl alcohol (CAS #: 100-51-6)	1.1
2-Phenoxy Ethanol (CAS #: 122-99-6)	1.13
Triethanolamine (CAS #: 102-71-6)	-2.53

Chemical Name	Bioconcentration factor (BCF)
Triethanolamine (CAS #: 102-71-6)	3.9

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

14.1. UN number Not regulated

14.2. UN proper shipping name Not regulated

14.3. Transport hazard class(es) Not regulated

14.4. Packing group Not regulated

14.5. Environmental hazards Not regulated

14.6. Special precautions for user No information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Does not apply

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
Solvent black 46 65113-55-5 (30%)	X	-	-
Benzyl alcohol 100-51-6 (25%)	X	-	-
2-Phenoxy Ethanol 122-99-6 (20%)	X	-	-
Triethanolamine 102-71-6 (4%)	X	-	-
Phosphoric acid ester 90506-69-7 (1%)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDL	ENCS	IECSC	KECL	PICCS	AICS
Solvent black 46 65113-55-5 (30%)	X	X	-	-	-	-	X

Benzyl alcohol 100-51-6 (25%)	X	X	X	X	X	X	X
2-Phenoxy Ethanol 122-99-6 (20%)	X	X	X	X	X	X	X
Keton resin 25054-06-2 (14%)	X	X	X	X	X	X	X
Epoxy resin 24969-06-0 (6%)	X	X	X	X	X	X	X
Triethanolamine 102-71-6 (4%)	X	X	X	X	X	X	X
Phosphoric acid ester 90506-69-7 (1%)	-	-	-	X	-	-	-

"-" Not Listed

"X" Listed

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Issue Date 26-Oct-2016
Revision date 26-Oct-2016
Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average) **STEL**

- STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances **KECL**

- Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical

Substances **AICS** - Australian Inventory of Chemical Substances

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>

IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)

HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H332 - Harmful if inhaled

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 2015/830)

Version 1

Product Name Ballpen inks blue

Issue Date 26-Oct-2016

Revision date 26-Oct-2016

SECTION 1: Identification of the substance /mixture and of the company/undertaking

1.1. Product identifier

Product Name Ballpen inks blue
REACH registration number No information available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Ballpen ink
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Suzhou Xiongying Ink Technology Co., Ltd
Address Yunli road NO539 economic development zone of wujiang city jiangsu province
China
Postal Code 215217
Phone +86-512-63331385
FAX +86-512-63320778
E-mail zhangshenghong001@126.com

Importer
Address
Postal Code
Phone
FAX
E-mail

1.4. Emergency telephone number

+86-512-63331385

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] (H331) - (H332) Serious eye damage/eye irritation Category 2 - (H319)

2.2. Label elements

Symbols/Pictograms



Signal word Warning
Hazard Statements H319 - Causes serious eye irritation
Precautionary Statements P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

EU Specific Hazard Statements None.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients**3.1 Mixture**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Phenoxy Ethanol	204-589-7	122-99-6	25	Eye Irrit. 2 (H319)
Solvent blue38	215-523-1	13128-51-4	15	Not classified
BX	205-685-1	147-14-8	15	Not classified
Benzyl alcohol	202-859-9	100-51-6	15	Acute Tox. 4 (H332) Eye Irrit. 2 (H319)
1,2-propanediol	610-038-5	4254-14-2	10	Not classified
Keton resin	607-515-5	25054-06-2	10	Not classified
Castor oil resin	-	66070-88-0	5	Not classified
Triethanolamine	203-049-8	102-71-6	4	Not classified
Phosphoric acid ester	291-933-4	90506-69-7	1	Not classified

SECTION 4: First aid measures**4.1. Description of first aid measures General advice**

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

First aider: Pay attention to self-protection. Use personal protection recommended in Section 8.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

6.4. Reference to other sections

See Section 7 for more information

See section 8 for more information

See section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
2-Phenoxy Ethanol (CAS #: 122-99-6)	-	Skin STEL 20 ppm STEL 110 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³ Ceiling 20 ppm Ceiling 110 mg/m ³	-	-	-
BX (CAS #: 147-14-8)	-	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	-	-	-

Triethanolamine (CAS #: 102-71-6)	5 mg/m ³	STEL 1.6 ppm STEL 10 mg/m ³ TWA: 0.8 ppm TWA: 5 mg/m ³	-	TWA: 0.5 ppm TWA: 3.1 mg/m ³	-
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Chemical Name	Latvia	France	Finland	Germany	Italy
2-Phenoxy Ethanol (CAS #: 122-99-6)		-	TWA: 20 ppm TWA: 110 mg/m ³ STEL: 50 ppm STEL: 290 mg/m ³ Skin	TWA: 20 ppm TWA: 110 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 220 mg/m ³ Skin	-
BX (CAS #: 147-14-8)	TWA: 5 mg/m ³	-	TWA: 1 mg/m ³	-	-
Benzyl alcohol (CAS #: 100-51-6)	TWA: 5 mg/m ³	-	TWA: 10 ppm TWA: 45 mg/m ³	-	-
Triethanolamine (CAS #: 102-71-6)		-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Ceiling / Peak: 20 mg/m ³	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
2-Phenoxy Ethanol (CAS #: 122-99-6)	TWA: 230 mg/m ³	-	-	Skin STEL: 40 ppm STEL: 220 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³	-
Benzyl alcohol (CAS #: 100-51-6)	TWA: 240 mg/m ³	-	-	-	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
BX (CAS #: 147-14-8)	-	-	TWA: 1 mg/m ³ Cu dust and mist	-	IDLH: 100 mg/m ³ Cu dust and mist TWA: 1 mg/m ³ Cu dust and mist
Triethanolamine (CAS #: 102-71-6)	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	TWA: 5 mg/m ³	-	-

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Controls**

Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand Protection	Wear protective gloves.
Skin and body protection	Suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	None under normal processing

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Color	blue

Odor	No information available
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Explosive limits	Not determined
Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

9.2. Other information

No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological effects Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Phenoxy Ethanol (CAS #: 122-99-6)	= 1260 mg/kg (Rat)	= 5 mL/kg (Rabbit)	-
Benzyl alcohol (CAS #: 100-51-6)	= 1230 mg/kg (Rat) 1.55 mL/kg bw(Rat) male mL/kg bw (Rat)	= 2 g/kg (Rabbit) < 5000 mg/kg bw (Guinea pig)	= 8.8 mg/L 4h (Rat) > 4178 mg/m ³ air 4h(Rat)
Triethanolamine (CAS #: 102-71-6)	= 4190 mg/kg (Rat)	> 16 mL/kg (Rat) > 20 mL/kg (Rabbit)	-

Skin corrosion/irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Sensitization

No sensitization responses were observed.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical Name	European Union	IARC
Triethanolamine (CAS #: 102-71-6)	-	Group 3

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
2-Phenoxy Ethanol (CAS #: 122-99-6)	500: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50	337 - 352: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 366: 96 h <i>Pimephales promelas</i> mg/L LC50 static 220 - 460: 96 h <i>Leuciscus idus</i> mg/L LC50 static	500: 48 h <i>Daphnia magna</i> mg/L EC50
BX (CAS #: 147-14-8)	-	100: 48 h <i>Oryzias latipes</i> mg/L LC50 static	-
Benzyl alcohol (CAS #: 100-51-6)	35mg/L 3 h <i>Anabaena variabilis</i> mg/L mg/L 72h <i>Pseudokirchnerella subcapitata</i> mg/L 72h <i>Pseudokirchnerella subcapitata</i>	460 mg/L 96 h <i>Pimephales promelas</i> static 10 mg/L 96 h <i>Lepomis macrochirus</i> static 770 mg/L 1h 24h 48h <i>Pimephales promelas</i> 460 mg/L 72h 96h <i>Pimephales promelas</i>	23 mg/L 48 h water flea 230 mg/L 48h <i>Daphnia magna</i>
Triethanolamine (CAS #: 102-71-6)	216: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 169: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	10600 - 13000: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1000: 96 h <i>Pimephales promelas</i> mg/L LC50 static 450 - 1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
2-Phenoxy Ethanol (CAS #: 122-99-6)	1.13
BX (CAS #: 147-14-8)	6.6
Benzyl alcohol (CAS #: 100-51-6)	1.1
Triethanolamine (CAS #: 102-71-6)	-2.53

Chemical Name	Bioconcentration factor (BCF)
BX (CAS #: 147-14-8)	11
Triethanolamine (CAS #: 102-71-6)	3.9

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

14.1. UN number Not regulated

14.2. UN proper shipping name Not regulated

14.3. Transport hazard class(es) Not regulated

14.4. Packing group Not regulated

14.5. Environmental hazards Not regulated

14.6. Special precautions for user No information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Does not apply

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
2-Phenoxy Ethanol 122-99-6 (25%)	X	-	-
BX 147-14-8 (15%)	X	-	-
Benzyl alcohol 100-51-6 (15%)	X	-	-

Triethanolamine 102-71-6 (4%)	X	-	-
Phosphoric acid ester 90506-69-7 (1%)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
2-Phenoxy Ethanol 122-99-6 (25%)	X	X	X	X	X	X	X
BX 147-14-8 (15%)	X	X	X	X	X	X	X
Benzyl alcohol 100-51-6 (15%)	X	X	X	X	X	X	X
1,2-propanediol 4254-14-2 (10%)	-	X	X	-	-	X	-
Keton resin 25054-06-2 (10%)	X	X	X	X	X	X	X
Castor oil resin 66070-88-0 (5%)	X	X	X	X	X	X	X
Triethanolamine 102-71-6 (4%)	X	X	X	X	X	X	X
Phosphoric acid ester 90506-69-7 (1%)	-	-	-	X	-	-	-

"-" Not Listed

"X" Listed

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Issue Date 26-Oct-2016
Revision date 26-Oct-2016
Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average) **STEL**

- STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances **KECL**

- Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical

Substances **AICS** - Australian Inventory of Chemical Substances

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>

IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)

HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H332 - Harmful if inhaled

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 2015/830)

Version 1

Product Name Ballpen inks red

Issue Date 26-Oct-2016

Revision date 26-Oct-2016

SECTION 1: Identification of the substance /mixture and of the company/undertaking

1.1. Product identifier

Product Name Ballpen inks red
REACH registration number No information available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Ballpen ink
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Suzhou Xiongying Ink Technology Co., Ltd
Address Yunli road NO539 economic development zone of wujiang city jiangsu province
China
Postal Code 215217
Phone +86-512-63331385
FAX +86-512-63320778
E-mail zhangshenghong001@126.com

Importer
Address
Postal Code
Phone
FAX
E-mail

1.4. Emergency telephone number

+86-512-63331385

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Serious eye damage/eye irritation Category 2 - (H319)

2.2. Label elements

Symbols/Pictograms



Signal word Warning
Hazard Statements H319 - Causes serious eye irritation
Precautionary Statements P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention
EU Specific Hazard Statements None.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients**3.1 Mixture**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Solvent red43	15086-94-9	239-138-3	30	Not classified
2-Phenoxy Ethanol	204-589-7	122-99-6	25	Eye Irrit. 2 (H319))
Benzyl alcohol	202-859-9	100-51-6	20	Acute Tox. 4 (H33)
				Eye Irrit. 2 (H319)
Keton resin	607-515-5	25054-06-2	14	Not classified
Epoxy resin	607-468-0	24969-06-0	6	Not classified
Triethanolamine	203-049-8	102-71-6	4	Not classified
Phosphoric acid ester	291-933-4	90506-69-7	1	Not classified

SECTION 4: First aid measures**4.1. Description of first aid measures General advice**

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

First aider: Pay attention to self-protection. Use personal protection recommended in Section 8.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

6.4. Reference to other sections

See Section 7 for more information

See section 8 for more information

See section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
2-Phenoxy Ethanol (CAS #: 122-99-6)	-	Skin STEL 20 ppm STEL 110 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³ Ceiling 20 ppm Ceiling 110 mg/m ³	-	-	-
Triethanolamine (CAS #: 102-71-6)	5 mg/m ³	STEL 1.6 ppm STEL 10 mg/m ³ TWA: 0.8 ppm TWA: 5 mg/m ³	-	TWA: 0.5 ppm TWA: 3.1 mg/m ³	-

Chemical Name	Latvia	France	Finland	Germany	Italy
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2-Phenoxy Ethanol (CAS #: 122-99-6)		-	TWA: 20 ppm TWA: 110 mg/m ³ STEL: 50 ppm STEL: 290 mg/m ³ Skin	TWA: 20 ppm TWA: 110 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 220 mg/m ³ Skin	-
Benzyl alcohol (CAS #: 100-51-6)	TWA: 5 mg/m ³	-	TWA: 10 ppm TWA: 45 mg/m ³	-	-
Triethanolamine (CAS #: 102-71-6)		-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Ceiling / Peak: 20 mg/m ³	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
2-Phenoxy Ethanol (CAS #: 122-99-6)	TWA: 230 mg/m ³	-	-	Skin STEL: 40 ppm STEL: 220 mg/m ³ TWA: 20 ppm TWA: 110 mg/m ³	-
Benzyl alcohol (CAS #: 100-51-6)	TWA: 240 mg/m ³	-	-	-	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine (CAS #: 102-71-6)	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	TWA: 5 mg/m ³	-	-

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Controls**

Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand Protection	Wear protective gloves.
Skin and body protection	Suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	None under normal processing

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Color	red
Odor	No information available
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Explosive limits	Not determined

Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

9.2. Other information

No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological effects Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Phenoxy Ethanol (CAS #: 122-99-6)	= 1260 mg/kg (Rat)	= 5 mL/kg (Rabbit)	-
Benzyl alcohol (CAS #: 100-51-6)	= 1230 mg/kg (Rat) 1.55 mL/kg bw(Rat) male mL/kg bw (Rat)	= 2 g/kg (Rabbit) < 5000 mg/kg bw (Guinea pig)	= 8.8 mg/L 4h (Rat) > 4178 mg/m³air 4h(Rat)
Triethanolamine (CAS #: 102-71-6)	= 4190 mg/kg (Rat)	> 16 mL/kg (Rat) > 20 mL/kg (Rabbit)	-

Skin corrosion/irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Sensitization

No sensitization responses were observed.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical Name	European Union	IARC
Triethanolamine (CAS #: 102-71-6)	-	Group 3

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
2-Phenoxy Ethanol (CAS #: 122-99-6)	500: 72 h Desmodesmus subspicatus mg/L EC50	337 - 352: 96 h Pimephales promelas mg/L LC50 flow-through 366: 96 h Pimephales promelas mg/L LC50 static 220 - 460: 96 h Leuciscus idus mg/L LC50 static	500: 48 h Daphnia magna mg/L EC50
Benzyl alcohol (CAS #: 100-51-6)	35mg/L 3 h Anabaena variabilis mg/L mg/L 72h Pseudokirchnerella subcapitata mg/L 72h Pseudokirchnerella subcapitata	460 mg/L 96 h Pimephales promelas static 10 mg/L 96 h Lepomis macrochirus static 770 mg/L 1h 24h 48h Pimephales promelas 460 mg/L 72h 96h Pimephales promelas	23 mg/L 48 h water flea 230 mg/L 48h Daphnia magna
Triethanolamine (CAS #: 102-71-6)	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
2-Phenoxy Ethanol (CAS #: 122-99-6)	1.13
Benzyl alcohol (CAS #: 100-51-6)	1.1
Triethanolamine (CAS #: 102-71-6)	-2.53

Chemical Name	Bioconcentration factor (BCF)
Triethanolamine (CAS #: 102-71-6)	3.9

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

14.1. UN number Not regulated

14.2. UN proper shipping name Not regulated

14.3. Transport hazard class(es) Not regulated

14.4. Packing group Not regulated

14.5. Environmental hazards Not regulated

14.6. Special precautions for user No information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Does not apply

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
Solvent red 43 15086-94-9 (30%)	X	-	-
2-Phenoxy Ethanol 122-99-6 (25%)	X	-	-
Benzyl alcohol 100-51-6 (20%)	X	-	-
Triethanolamine 102-71-6 (4%)	X	-	-
Phosphoric acid ester 90506-69-7 (1%)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDL	ENCS	IECSC	KECL	PICCS	AICS
Solvent red 43 15086-94-9 (30%)	X	X	X	X	X	X	X

2-Phenoxy Ethanol 122-99-6 (25%)	X	X	X	X	X	X	X
Benzyl alcohol 100-51-6 (20%)	X	X	X	X	X	X	X
Keton resin 25054-06-2 (14%)	X	X	X	X	X	X	X
Epoxy resin 24969-06-0 (6%)	X	X	X	X	X	X	X
Triethanolamine 102-71-6 (4%)	X	X	X	X	X	X	X
Phosphoric acid ester 90506-69-7 (1%)	-	-	-	X	-	-	-

"-" Not Listed

"X" Listed

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Issue Date 26-Oct-2016
Revision date 26-Oct-2016
Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average) **STEL**

- STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances **KECL**

- Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical

Substances **AICS** - Australian Inventory of Chemical Substances

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>

IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)

HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H332 - Harmful if inhaled

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----

SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH), Annex II
(COMMISSION REGULATION (EU) No 2015/830)

Version 1

Product Name Ballpen inks green

Issue Date 26-Oct-2016

Revision date 26-Oct-2016

SECTION 1: Identification of the substance /mixture and of the company/undertaking

1.1. Product identifier

Product Name Ballpen inks Green
REACH registration number No information available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Ballpen ink
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier Suzhou Xiongying Ink Technology Co., Ltd
Address Yunli road NO539 economic development zone of wujiang city jiangsu province
China
Postal Code 215217
Phone +86-512-63331385
FAX +86-512-63320778
E-mail zhangshenghong001@126.com

Importer
Address
Postal Code
Phone
FAX
E-mail

1.4. Emergency telephone number

+86-512-63331385

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]- (H331) - (H332)
Serious eye damage/eye irritation Category 2 - (H319)

2.2. Label elements

Symbols/Pictograms



Signal word Warning
Hazard Statements H319 - Causes serious eye irritation
Precautionary Statements P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention

EU Specific Hazard Statements None.

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients**3.1 Mixture**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Epoxy resin		24969-06-0	28	Eye Irrit. 2 (H319) Not classified
2-Phenoxy Ethanol	204-589-7	122-99-6	20	
Solvent blue38	215-523-1	13128-51-4	15	
Benzyl alcohol	202-859-9	100-51-6	12	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Not classified
Propan-1,2-ediol	200-338-0	574-55-6	12	Not classified
Cationic yellowX-8GL		12217-50-4	8	
Triethanolamine	203-049-8	102-71-6	5	

SECTION 4: First aid measures**4.1. Description of first aid measures General advice**

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention if you feel unwell.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

First aider: Pay attention to self-protection. Use personal protection recommended in Section 8.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

6.2. Environmental precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

6.4. Reference to other sections

See Section 7 for more information

See section 8 for more information

See section 13 for more information

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat.

Keep locked up and out of reach of children. Store in accordance with local regulations.

7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

Chemical Name	Australia	Austria	Belgium	Denmark	European Union
2-Phenoxy Ethanol (CAS #: 122-99-6)		^{Skin} STEL 20 ppm ³ STEL 110 mg/m ³ TWA: 20 ppm ³ TWA: 110 mg/m ³ Ceiling 20 ppm ³ Ceiling 110 mg/m ³			

Triethanolamine (CAS #: 102-71-6)	5 mg/m ³	STEL 1.6 ppm ³ STEL 10 mg/m ³ TWA: 0.8 ppm ³ TWA: 5 mg/m ³		TWA: 0.5 ppm ³ TWA: 3.1 mg/m ³	
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Chemical Name	Latvia	France	Finland	Germany	Italy
2-Phenoxy Ethanol (CAS #: 122-99-6)		-	TWA: 20 ppm ³ TWA: 110 mg/m ³ STEL: 50 ppm ³ STEL: 290 mg/m ³ Skin	TWA: 20 ppm ³ TWA: 110 mg/m ³ Ceiling / Peak: 40 ppm ³ Ceiling / Peak: 220 mg/m ³ Skin	-
Benzyl alcohol (CAS #: 100-51-6)	TWA: 5 mg/m ³		TWA: 10 ppm ³ TWA: 45 mg/m ³		
Triethanolamine (CAS #: 102-71-6)		-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ Ceiling / Peak: 20 mg/m ³	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
2-Phenoxy Ethanol (CAS #: 122-99-6)	TWA: 230 mg/m ³	-	-	Skin STEL: 40 ppm ³ STEL: 220 mg/m ³ TWA: 20 ppm ³ TWA: 110 mg/m ³	-
Benzyl alcohol (CAS #: 100-51-6)	TWA: 240 mg/m ³	-	-	-	-

Chemical Name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Triethanolamine (CAS #: 102-71-6)	TWA: 6 mg/m ³ STEL: 10 mg/m ³		TWA: 6 mg/m ³		

Derived No Effect Level (DNEL)

No information available

Predicted No Effect Concentration (PNEC)

No information available

8.2. Exposure controls**Engineering Controls**

Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand Protection	Wear protective gloves.
Skin and body protection	Suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	None under normal processing

Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Color	green

Odor	No information available
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Explosive limits	Not determined
Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

9.2. Other information

No information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological****effects Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Phenoxy Ethanol (CAS #: 122-99-6)	= 1260 mg/kg (Rat)	= 5 mL/kg (Rabbit)	-
Benzyl alcohol (CAS #: 100-51-6)	= 1230 mg/kg (Rat) 1.55 mL/kg bw(Rat) male mL/kg bw (Rat)	= 2 g/kg (Rabbit) < 5000 mg/kg bw (Guinea pig)	= 8.8 mg/L 4h (Rat) > 4178 mg/m ³ air 4h(Rat)
Triethanolamine (CAS #: 102-71-6)	= 4190 mg/kg (Rat)	> 16 mL/kg (Rat) > 20 mL/kg (Rabbit)	-

Skin corrosion/irritation

Non-irritating to the skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Sensitization

No sensitization responses were observed.

Germ cell mutagenicity

No information available.

Carcinogenicity

Chemical Name	European Union	IARC
Triethanolamine (CAS #: 102-71-6)	-	Group 3

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

SECTION 12: Ecological information**12.1. Toxicity**

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
2-Phenoxy Ethanol (CAS #: 122-99-6)	500: 72 h Desmodesmus subspicatus mg/L EC50	337 - 352: 96 h Pimephales promelas mg/L LC50 flow-through 366: 96 h Pimephales promelas mg/L LC50 static 220 - 460: 96 h Leuciscus idus mg/L LC50 static	500: 48 h Daphnia magna mg/L EC50
Benzyl alcohol (CAS #: 100-51-6)	35mg/L 3 h Anabaena variabilis mg/L mg/L 72h Pseudokirchnerella subcapitata mg/L 72h Pseudokirchnerella subcapitata	460 mg/L 96 h Pimephales promelas static 10 mg/L 96 h Lepomis macrochirus static 770 mg/L 1h 24h 48h Pimephales promelas 460 mg/L 72h 96h Pimephales promelas	23 mg/L 48 h water flea 230 mg/L 48h Daphnia magna
Triethanolamine (CAS #: 102-71-6)	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	-

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
2-Phenoxy Ethanol (CAS #: 122-99-6)	1.13
Benzyl alcohol (CAS #: 100-51-6)	1.1
Triethanolamine (CAS #: 102-71-6)	-2.53

Chemical Name	Bioconcentration factor (BCF)
Triethanolamine (CAS #: 102-71-6)	3.9

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport information

14.1. UN number Not regulated

14.2. UN proper shipping name Not regulated

14.3. Transport hazard class(es) Not regulated

14.4. Packing group Not regulated

14.5. Environmental hazards Not regulated

14.6. Special precautions for user No information available

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Does not apply

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
Epoxy resin 24969-06-0 (28%)	X	-	-
2-Phenoxy Ethanol 122-99-6 (20%)	X	-	-
Solvent blue8 13128-51-4 (15%)	X	-	-

Benzyl alcohol 100-51-6 (12%)	X	-	-
Propan-1,2-ediol 574-55-6 (12%)	X	-	-
Cationic yellowX-8GL 12217-50-4 (8%)	X	-	-
Triethanolamine 102-71-6 (5%)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

International Inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Epoxy resin 24969-06-0 (28%)	X	X	X	X	X	X	X
2-Phenoxy Ethanol 122-99-6 (20%)	X	X	X	X	X	X	X
Solvent blue8 13128-51-4 (15%)	X	X	X	X	X	X	X
Benzyl alcohol 100-51-6 (12%)	-	X	X	-	-	X	-
Propan-1,2-ediol 574-55-6 (12%)	X	X	X	X	X	X	X
Cationic yellowX-8GL 12217-50-4 (8%)	X	X	X	X	X	X	X
Triethanolamine 102-71-6 (5%)	X	X	X	X	X	X	X

"-" Not Listed

"X" Listed

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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Revision Note Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical

Substances **AICS** - Australian Inventory of Chemical Substances

Key literature references and sources for data

ECHA: <http://echa.europa.eu/>

IFA GESTIS: [http://gestis-en.itrust.de/nxt/gateway.dll?f=templates\\$fn=default.htm\\$vid=gestiseng:sdbeng](http://gestis-en.itrust.de/nxt/gateway.dll?f=templates$fn=default.htm$vid=gestiseng:sdbeng)

HSDB: <http://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H332 - Harmful if inhaled

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

----- End of Safety Data Sheet -----