

# 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-Jan-2018

Revision date 26-Jan-2018

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

### 1.1. Product identifier

Product Name Ballpen inks black  
REACH registration number The ingredients of this ink meet the criteria of the Regulation 1907/2006/EC(REACH)

### 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 Neon Orient (Shanghai) Co., Ltd.  
Address Room 516 – 518, No. 583, Lingling Road. (Offshore Oil Mansion) Shanghai,  
P.R. China  
Postal Code 200030  
Phone +(86) 21-64640878  
FAX -  
E-mail -

Importer  
Address  
Postal Code  
Phone  
FAX  
E-mail

### 1.4. Emergency telephone number

-

## 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)<br>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<br>STEL 20 ppm<br>STEL 110 mg/m <sup>3</sup><br>TWA: 20 ppm<br>TWA: 110 mg/m <sup>3</sup><br>Ceiling 20 ppm<br>Ceiling 110 mg/m <sup>3</sup> | -       | -                                          | -              |
| Triethanolamine (CAS #: 102-71-6)   | 5 mg/m <sup>3</sup> | STEL 1.6 ppm<br>STEL 10 mg/m <sup>3</sup><br>TWA: 0.8 ppm<br>TWA: 5 mg/m <sup>3</sup>                                                             | -       | TWA: 0.5 ppm<br>TWA: 3.1 mg/m <sup>3</sup> | -              |

| Chemical Name | Latvia | France | Finland | Germany | Italy |
|---------------|--------|--------|---------|---------|-------|
|---------------|--------|--------|---------|---------|-------|

|                                     |                          |   |                                                                                                  |                                                                                                                      |   |
|-------------------------------------|--------------------------|---|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---|
| Benzyl alcohol (CAS #: 100-51-6)    | TWA: 5 mg/m <sup>3</sup> | - | TWA: 10 ppm<br>TWA: 45 mg/m <sup>3</sup>                                                         | -                                                                                                                    | - |
| 2-Phenoxy Ethanol (CAS #: 122-99-6) |                          | - | TWA: 20 ppm<br>TWA: 110 mg/m <sup>3</sup><br>STEL: 50 ppm<br>STEL: 290 mg/m <sup>3</sup><br>Skin | TWA: 20 ppm<br>TWA: 110 mg/m <sup>3</sup><br>Ceiling / Peak: 40 ppm<br>Ceiling / Peak: 220 mg/m <sup>3</sup><br>Skin | - |
| Triethanolamine (CAS #: 102-71-6)   |                          | - | TWA: 5 mg/m <sup>3</sup>                                                                         | TWA: 5 mg/m <sup>3</sup><br>Ceiling / Peak: 20 mg/m <sup>3</sup>                                                     | - |

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

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

**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           |

|                                       |                  |
|---------------------------------------|------------------|
| <b>Flammability Limit in Air</b>      | Not determined   |
| <b>Vapor Pressure</b>                 | Not determined   |
| <b>Vapor density</b>                  | Not determined   |
| <b>Relative density</b>               | Not determined   |
| <b>Partition coefficient (LogPow)</b> | Not determined   |
| <b>Autoignition temperature</b>       | Not determined   |
| <b>Decomposition temperature</b>      | Not determined   |
| <b>Kinematic viscosity</b>            | Not determined   |
| <b>Dynamic viscosity</b>              | Not determined   |
| <b>Explosive properties</b>           | Not an explosive |
| <b>Oxidizing properties</b>           | 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 )<br>1.55 mL/kg bw(Rat) male<br>mL/kg bw (Rat) | = 2 g/kg ( Rabbit )<br>< 5000 mg/kg bw (Guinea pig) | = 8.8 mg/L 4h ( Rat )<br>> 4178 mg/m³air 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)<br>> 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<br>mg/L 72h Pseudokirchnerella subcapitata<br>mg/L 72h Pseudokirchnerella subcapitata | 460 mg/L 96 h Pimephales promelas static<br>10 mg/L 96 h Lepomis macrochirus static<br>770 mg/L 1h 24h 48h Pimephales promelas<br>460 mg/L 72h 96h Pimephales promelas | 23 mg/L 48 h water flea<br>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<br>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**

|                                                                                 |                          |
|---------------------------------------------------------------------------------|--------------------------|
| <b>14.1. UN number</b>                                                          | Not regulated            |
| <b>14.2. UN proper shipping name</b>                                            | Not regulated            |
| <b>14.3. Transport hazard class(es)</b>                                         | Not regulated            |
| <b>14.4. Packing group</b>                                                      | Not regulated            |
| <b>14.5. Environmental hazards</b>                                              | Not regulated            |
| <b>14.6. Special precautions for user</b>                                       | No information available |
| <b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b> | 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<br>65113-55-5 ( 30% )     | X             | -               | -                               |
| Benzyl alcohol<br>100-51-6 ( 25% )         | X             | -               | -                               |
| 2-Phenoxy Ethanol<br>122-99-6 ( 20% )      | X             | -               | -                               |
| Triethanolamine<br>102-71-6 ( 4% )         | X             | -               | -                               |
| Phosphoric acid ester<br>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<br>65113-55-5 ( 30% ) | X    | X       | -    | -     | -    | -     | X    |

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