

## SDS Report

No. SHAHG1905219302

Date: Apr. 4, 2019

Page 1 of 1

Ningbo SW Co.Ltd

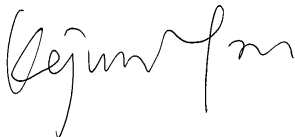
North Side, Xinhengjiu Road, Private Industrial Zone, Jiangbei District, Ningbo City, Zhejiang Province, China.

SGS Ref. No. : NBHL1903003848SD; SHHL1903012705SD-SH  
Sample Name : Ball pen ink (Black)  
End Uses : Write in papers  
Composition/Ingredient of sample (as per client submission) : See *section 3 Composition/information on ingredients* on the SDS report  
Job Receiving Date : Mar 22, 2019  
Last Information Date : Mar 26, 2019  
SDS Preparation Period : Mar 22 – Apr 03, 2019

Service Requested : Preparation of Safety Data Sheet (SDS) for the sample with submitted information.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200, and is provided per attached.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Kejun You, Grady  
Approved Signatory



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center - Client's Laboratory

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# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

### 1 Identification

- **Product identifier**
  - **Trade name:** *Ball pen ink (Black)*
  - **Recommended use of the chemical and restrictions on use**
  - **Application of the substance / the preparation:** *Write in papers*
  - **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
*Ningbo SW Co.Ltd*  
*North Side, Xinhengjiu Road, Private Industrial Zone, Jiangbei District, Ningbo City, Zhejiang Province, China.*  
*Tel: 0086-574-87384685*  
*E-mail: sale03@sew-star.com*  
*Fax: 0086-574-87384682*
  - **Other US contact point:** *Not available*
  - **Further information obtainable from:** *Ningbo SW Co.Ltd*
  - **Emergency telephone number:**  
*WangXia*  
*Tel: 0086-574-87652424*
- USA  
 Poison Center  
 Tel: +1 800 222 1222
- **Reference Number:** *NBHL1903003848SD; SHHL1903012705SD-SH; SHAHG1905219302*

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
*The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200)*
  - **Information concerning particular hazards for human and environment:**  
*The product has not to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).*
  - **Classification system:**  
*The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.*
- 
- **Label elements**
  - **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
  - **Hazard pictograms** *Not applicable*
  - **Signal word** *Not applicable*
  - **Hazard-determining components of labeling:** *Not applicable*
  - **Hazard statements** *Not applicable*
  - **Precautionary statements** *Not applicable*
  - **Hazards not otherwise classified (HNOC)** *No further relevant information available.*

### 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:**  
*Mixture of the substances listed below with nonhazardous additions.*  
*For the wording of the listed hazard statements refer to section 16.*

- **Composition:**

7732-18-5	Water	55.0%
25054-06-2	Formaldehyde, polymer with cyclohexanone	25.0%
57-55-6	propane-1,2-diol	10.0%

(Contd. on page 2)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

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**Trade name: Ball pen ink (Black)**

(Contd. of page 1)

4254-14-2	R(-)-1,2-Propanediol	5.0%
12227-89-3	Iron Oxide Black	4.8%
100-51-6	Benzyl alcohol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	0.08%
122-99-6	2-Phenoxyethanol ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319	0.05%
102-71-6	2,2',2''-nitrioltriethanol	0.05%
9003-39-8	Polyvinylpyrrolidone	0.02%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Special protective equipment and precautions for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Ensure adequate ventilation  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

USA

(Contd. on page 3)

# Safety Data Sheet

## 29 CFR 1910.1200

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Trade name: **Ball pen ink (Black)**

(Contd. of page 2)

### 7 Handling and storage

- **Precautions for safe handling:**
  - Ensure good ventilation/exhaustion at the workplace.
  - Keep away from heat and direct sunlight.
  - Prevent formation of aerosols.
  - Avoid contact with skin and eyes.
  - For the general occupational hygienic measures refer to section 8.
- **Information about protection against explosions and fires:** Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls/personal protection

- **Components with limit values that require monitoring at the workplace:**

**57-55-6 propane-1,2-diol (10.0%)**

WEEL (USA) Long-term value: 10 mg/m<sup>3</sup>

**100-51-6 Benzyl alcohol (0.08%)**

WEEL (USA) Long-term value: 10 ppm

**102-71-6 2,2',2''-nitrioltriethanol (0.05%)**

TLV (USA) Long-term value: 5 mg/m<sup>3</sup>

- **Regulatory information WEEL (USA):** Guide to Occupational Exposure Values (AIHA WEELs)
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

USA

# Safety Data Sheet

## 29 CFR 1910.1200

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Reviewed on 04/02/2019

Trade name: **Ball pen ink (Black)**

(Contd. of page 3)

· **Eye protection:**

Tightly sealed goggles

### 9 Physical and chemical properties

· **General Information**· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Black
· <b>Odor:</b>	Odorless
· <b>Odor threshold:</b>	Not available

· <b>pH-value at 25 °C:</b>	9.5
· <b>Melting point/Melting range:</b>	Not available
· <b>Freezing point:</b>	Not available
· <b>Boiling point/Boiling range:</b>	100 °C

· <b>Flash point:</b>	>93 °C
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· <b>Flammability (solid, gaseous):</b>	Not applicable
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· <b>Auto-Ignition temperature:</b>	Not available
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· <b>Decomposition temperature:</b>	Not available
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· **Explosion limits:**

· <b>Lower:</b>	Not available.
· <b>Upper:</b>	Not available.

· <b>Vapor pressure:</b>	Not available.
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· <b>Density:</b>	Not available.
· <b>Relative density</b>	Not available.
· <b>Vapor density</b>	Not available.
· <b>Evaporation rate</b>	Not available.

· **Solubility in / Miscibility with**

· <b>Water:</b>	Insoluble.
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· <b>Partition coefficient (n-octanol/water):</b>	Not available
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· **Viscosity:**

· <b>Dynamic:</b>	Not available.
· <b>Kinematic:</b>	Not available.

· <b>Other information</b>	Specific gravity --10%
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### 10 Stability and reactivity

- **Reactivity** No decomposition if used according to specification.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

(Contd. on page 5)

USA

# Safety Data Sheet

## 29 CFR 1910.1200

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Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Black)**

(Contd. of page 4)

· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

#### 57-55-6 propane-1,2-diol

Oral	LD50	20,000 mg/kg (rat)
Dermal	LD50	20,800 mg/kg (rabbit)

#### 100-51-6 Benzyl alcohol

Oral	LD50	1,230 mg/kg (rat)
------	------	-------------------

#### 102-71-6 2,2',2''-nitrioltriethanol

Oral	LD50	5,846 mg/kg (mouse)
		5,530 mg/kg (rat)
		2,200 mg/kg (rabbit)
Dermal	LD50	>22,500 mg/kg (rabbit)

#### 122-99-6 2-Phenoxyethanol

Oral	LD50	1,260 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

#### 9003-39-8 Polyvinylpyrrolidone

Oral	LD50	>40,000 mg/kg (mouse)
		100,000 mg/kg (rat)

· **Skin corrosion/irritation:** Irritating effect possible.

· **Serious eye damage/irritation:** Irritating effect possible.

· **Respiratory or skin sensitisation:** Sensitization possible.

· **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

102-71-6	2,2',2''-nitrioltriethanol	3
9003-39-8	Polyvinylpyrrolidone	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

(Contd. on page 6)

USA

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Black)**

(Contd. of page 5)

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not applicable                                       |
| · <b>UN proper shipping name</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not applicable                                       |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Not applicable                                       |
| · <b>Label</b>   | Not applicable                                       |
| · <b>Packing group</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not applicable                                       |
| · <b>Environmental hazards</b>   | Not applicable.                                      |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | Not applicable                                       |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

122-99-6	2-Phenoxyethanol
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· **TSCA (Toxic Substances Control Act):**

25054-06-2	Formaldehyde, polymer with cyclohexanone
------------	--

57-55-6	propane-1,2-diol
---------	------------------

12227-89-3	Iron Oxide Black
------------	------------------

100-51-6	Benzyl alcohol
----------	----------------

102-71-6	2,2',2''-nitriлотriethanol
----------	----------------------------

122-99-6	2-Phenoxyethanol
----------	------------------

9003-39-8	Polyvinylpyrrolidone
-----------	----------------------

7732-18-5	Water
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(Contd. on page 7)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Black)**

(Contd. of page 6)

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **New Jersey Right-to-Know List:**

57-55-6 propane-1,2-diol

102-71-6 2,2',2''-nitrilotriethanol

· **New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

· **Pennsylvania Right-to-Know List:**

57-55-6 propane-1,2-diol

100-51-6 Benzyl alcohol

102-71-6 2,2',2''-nitrilotriethanol

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

## 16 Other information

· **Relevant hazard statements**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

\*\*\*\*\*

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Date of preparation / last revision 04/03/2019 / -**

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

(Contd. on page 8)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Black)**

(Contd. of page 7)

ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

\*\*\*\*\*

End of document

## SDS Report

No. SHAHG1905219306

Date: Apr. 4, 2019

Page 1 of 1

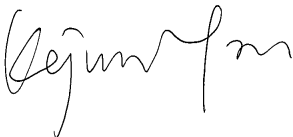
Ningbo SW Co.Ltd  
North Side, Xinhengjiu Road, Private Industrial Zone, Jiangbei District, Ningbo City, Zhejiang Province, China.

SGS Ref. No. : NBHL1903003848SD; SHHL1903012705SD-SH  
Sample Name : Ball pen ink (Pink)  
End Uses : Write in papers  
Composition/Ingredient of sample (as per client submission) : See *section 3 Composition/information on ingredients* on the SDS report  
Job Receiving Date : Mar 22, 2019  
Last Information Date : Mar 26, 2019  
SDS Preparation Period : Mar 22 – Apr 03, 2019

Service Requested : Preparation of Safety Data Sheet (SDS) for the sample with submitted information.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with US Regulations Relating to Labor 29 CFR 1910.1200, and is provided per attached.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Kejun You, Grady  
Approved Signatory



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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
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t HL (86-21) 61402594 f HL (86-21) 61156899 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

### 1 Identification

- **Product identifier**
- **Trade name:** Ball pen ink (Pink)
- **Recommended use of the chemical and restrictions on use**
- **Application of the substance / the preparation:** Write in papers
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Ningbo SW Co.Ltd  
North Side, Xinhengjiu Road, Private Industrial Zone, Jiangbei District, Ningbo City, Zhejiang Province, China.  
Tel: 0086-574-87384685  
E-mail: sale03@sew-star.com  
Fax: 0086-574-87384682
- **Other US contact point:** Not available
- **Further information obtainable from:** Ningbo SW Co.Ltd
- **Emergency telephone number:**  
WangXia  
Tel: 0086-574-87652424
- **USA**  
Poison Center  
Tel: +1 800 222 1222
- **Reference Number:** NBHL1903003848SD; SHHL1903012705SD-SH; SHAHG1905219306

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
  - **Information concerning particular hazards for human and environment:**  
The product has not to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
  - **Classification system:**  
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.
- 
- **Label elements**
  - **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
  - **Hazard pictograms** Not applicable
  - **Signal word** Not applicable
  - **Hazard-determining components of labeling:** Not applicable
  - **Hazard statements** Not applicable
  - **Precautionary statements** Not applicable
  - **Hazards not otherwise classified (HNOC)** No further relevant information available.

### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**  
Mixture of the substances listed below with nonhazardous additions.  
For the wording of the listed hazard statements refer to section 16.

- **Composition:**

7732-18-5	Water	55.0%
25054-06-2	Formaldehyde, polymer with cyclohexanone	25.0%
57-55-6	propane-1,2-diol	10.0%

(Contd. on page 2)

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**Trade name: Ball pen ink (Pink)**

(Contd. of page 1)

4254-14-2	R-(-)-1,2-Propanediol	5.0%
3089-17-6	2,9-Dichloro-5,12-dihydroquino[2,3-b]acridine-7,14-dione	3.8%
13463-67-7	titanium dioxide	1.0%
100-51-6	Benzyl alcohol	0.08%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	
122-99-6	2-Phenoxyethanol	0.05%
	⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319	
102-71-6	2,2',2''-nitrioltriethanol	0.05%
9003-39-8	Polyvinylpyrrolidone	0.02%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Seek medical treatment.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub> extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Special protective equipment and precautions for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Ensure adequate ventilation  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid contact with eyes.  
Avoid contact with skin.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.

USA

(Contd. on page 3)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

Trade name: Ball pen ink (Pink)

(Contd. of page 2)

### 7 Handling and storage

- **Precautions for safe handling:**
  - Ensure good ventilation/exhaustion at the workplace.
  - Keep away from heat and direct sunlight.
  - Prevent formation of aerosols.
  - Avoid contact with skin and eyes.
  - For the general occupational hygienic measures refer to section 8.
- **Information about protection against explosions and fires:** Normal measures for preventive fire protection.
- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

### 8 Exposure controls/personal protection

- **Components with limit values that require monitoring at the workplace:**

57-55-6 propane-1,2-diol (10.0%)

WEEL (USA) Long-term value: 10 mg/m<sup>3</sup>

100-51-6 Benzyl alcohol (0.08%)

WEEL (USA) Long-term value: 10 ppm

102-71-6 2,2',2''-nitrioltriethanol (0.05%)

TLV (USA) Long-term value: 5 mg/m<sup>3</sup>

- **Regulatory information WEEL (USA):** Guide to Occupational Exposure Values (AIHA WEELs)
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:** See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **Breathing equipment:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

USA

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

Trade name: Ball pen ink (Pink)

(Contd. of page 3)

## · Eye protection:



Tightly sealed goggles

### 9 Physical and chemical properties

## · General Information

## · Appearance:

Form:	Liquid
Color:	Pink
Odor:	Odorless
Odor threshold:	Not available

pH-value at 25 °C:	9.5
Melting point/Melting range:	Not available
Freezing point:	Not available
Boiling point/Boiling range:	100 °C

Flash point:	>93 °C
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Flammability (solid, gaseous):	Not applicable
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Auto-Ignition temperature:	Not available
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Decomposition temperature:	Not available
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## · Explosion limits:

Lower:	Not available.
Upper:	Not available.

Vapor pressure:	Not available.
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Density:	Not available.
Relative density	Not available.
Vapor density	Not available.
Evaporation rate	Not available.

## · Solubility in / Miscibility with

Water:	Insoluble.
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Partition coefficient (n-octanol/water):	Not available
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## · Viscosity:

Dynamic:	Not available.
Kinematic:	Not available.

Other information	Specific gravity --10%
-------------------	------------------------

### 10 Stability and reactivity

- **Reactivity** No decomposition if used according to specification.
- **Chemical stability** Stable under recommended storage conditions.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.

(Contd. on page 5)

USA

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Pink)**

(Contd. of page 4)

· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

#### 57-55-6 propane-1,2-diol

Oral	LD50	20,000 mg/kg (rat)
Dermal	LD50	20,800 mg/kg (rabbit)

#### 13463-67-7 titanium dioxide

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

#### 100-51-6 Benzyl alcohol

Oral	LD50	1,230 mg/kg (rat)
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#### 102-71-6 2,2',2''-nitrioltriethanol

Oral	LD50	5,846 mg/kg (mouse)
		5,530 mg/kg (rat)
		2,200 mg/kg (rabbit)
		>22,500 mg/kg (rabbit)
Dermal	LD50	>22,500 mg/kg (rabbit)

#### 122-99-6 2-Phenoxyethanol

Oral	LD50	1,260 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

#### 9003-39-8 Polyvinylpyrrolidone

Oral	LD50	>40,000 mg/kg (mouse)
		100,000 mg/kg (rat)

- **Skin corrosion/irritation:** Irritating effect possible.
- **Serious eye damage/irritation:** Irritating effect possible.
- **Respiratory or skin sensitisation:** Sensitization possible.

· **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
102-71-6	2,2',2''-nitrioltriethanol	3
9003-39-8	Polyvinylpyrrolidone	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

(Contd. on page 6)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Pink)**

(Contd. of page 5)

- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not applicable                                       |
| · <b>UN proper shipping name</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not applicable                                       |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Not applicable                                       |
| · <b>Label</b>   | Not applicable                                       |
| · <b>Packing group</b>   |  |
| · <b>DOT, IMDG, IATA</b>   | Not applicable                                       |
| · <b>Environmental hazards</b>   | Not applicable.                                      |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | Not applicable                                       |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

122-99-6 | 2-Phenoxyethanol

· **TSCA (Toxic Substances Control Act):**

25054-06-2	Formaldehyde, polymer with cyclohexanone
57-55-6	propane-1,2-diol
3089-17-6	2,9-Dichloro-5,12-dihydroquino[2,3-b]acridine-7,14-dione
13463-67-7	titanium dioxide
100-51-6	Benzyl alcohol

(Contd. on page 7)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Pink)**

(Contd. of page 6)

102-71-6	2,2',2''-nitrioltriethanol
122-99-6	2-Phenoxyethanol
9003-39-8	Polyvinylpyrrolidone
7732-18-5	Water

**· Proposition 65**
**· Chemicals known to cause cancer:**

13463-67-7	titanium dioxide
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**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· New Jersey Right-to-Know List:**

57-55-6	propane-1,2-diol
13463-67-7	titanium dioxide
102-71-6	2,2',2''-nitrioltriethanol

**· New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

**· Pennsylvania Right-to-Know List:**

57-55-6	propane-1,2-diol
13463-67-7	titanium dioxide
100-51-6	Benzyl alcohol
102-71-6	2,2',2''-nitrioltriethanol

**· Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

**· Cancerogenity categories**
**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	titanium dioxide	A4
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**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
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## 16 Other information

**· Relevant hazard statements**

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.

\*\*\*\*\*

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

**DISCLAIMER OF LIABILITY**

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or

(Contd. on page 8)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 04/03/2019

Version number 1.0

Reviewed on 04/02/2019

**Trade name: Ball pen ink (Pink)**

(Contd. of page 7)

disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Date of preparation / last revision** 04/03/2019 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

· \*\*\*\*\*

End of document