

SDS Report

No. SHATY1204435901

Date: Apr. 25, 2012

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SGS Ref. No. : SHTY120300004001
 Sample Name : Ball pen ink (black)
 End Uses : Writing
 Composition/Ingredient of sample (as per client submission) : See *Section 3 Composition/information on ingredients* on the SDS report
 Job Receiving Date : Mar.31, 2012
 Last Information Date : Apr.20, 2012
 SDS Preparation Period : Mar.31~Apr.20, 2012

Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.

Summary : As per request, the contents and formats of the SDS are prepared in accordance with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EU) No 453/2010 and Regulation (EC) No 1272/2008, and is provided per attached.

Signed for and on behalf of
 SGS-CSTC Chemical Laboratory

Lindy Liu

Lindy Liu
 Lab Manager

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Safety Data Sheet

Regulation(EC) No.1907/2006, 1272/2008

Printing date 25.04.2012

Revision: 13.04.2012

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

· **Product identifier**

· **Trade name:** *Ball pen ink (black)*

· **Article number:** *Data not available.*

· **Registration number:**

benzyl alcohol (CAS No.100-51-6)

Registration number: 17-2119488852-24-0000

phenoxyethanol (CAS No.122-99-6)

Registration number: 17-2119488853-22-0000

1,2-propanediol (CAS No.57-55-6)

Registration number: 17-2119488856-16-0000

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Application of the substance / the preparation:** *Writing*

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Changshu Hedian Pen Making Science and Technology limited company

Mocheng Town Changshu City Jiangsu Province

Tel: 0512-81588200

Fax: 0512-81528231

· **Only Representative/ other EU contact point:**

Paul Nolan

306 The Capel Buding, Mary's Abbey, Dublin7, Ireland

Tel: +353 1 8899951

Fax: +353 1 6865683

· **Further information obtainable from:**

Changshu Hedian Pen Making Science and Technology limited company

· **Emergency telephone number:**

Hu Yonghui

Mobile Phone: 13979199077

· **Email:** *littlesan@163.com*

· **Reference Number:** *SHTY120300004001; SHATY1204435901*

2 Hazards identification

· **Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

· **Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms** *GHS07*

· **Signal word** *Warning*

· **Hazard-determining components of labelling:** *Not applicable.*

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· Hazard statements*H315 Causes skin irritation.**H319 Causes serious eye irritation.**H335 May cause respiratory irritation.***· Precautionary statements***P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P103 Read label before use.**P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**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.**P321 Specific treatment (see on this label).**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· Additional information:***Important! This product contains substance that is of restricted use under Annex XVII of Regulation (EC) No. 1907/2006. For details, please refer to Section 15 and 16 of this Safety Data Sheet.***· Other hazards** Not applicable.**· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures**· Description:***Mixture: consisting of the following components.**For the wording of the listed risk phrases refer to section 16.***· Dangerous components:**

CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5	Benzyl alcohol ☒ Xn R20/22 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	19,0%
CAS: 122-99-6 EINECS: 204-589-7 Index number: 603-098-00-9	2-Phenoxyethanol ☒ Xn R22; ☒ Xi R36 ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	19,0%
CAS: 57-55-6 EINECS: 200-338-0	propane-1,2-diol substance with a Community workplace exposure limit	7,0%
CAS: 102-71-6 EINECS: 203-049-8	2,2',2''-nitritotriethanol substance with a Community workplace exposure limit	2,0%
CAS: 65294-17-9 EINECS: 265-686-8	p,p',p''-tris(dimethylamino)tritylium m-[(p-anilinophenyl)azo] benzenesulphonate ☒ Xi R36/37/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	22,0%

· Non-dangerous component:

25054-06-2	Formaldehyde, polymer with cyclohexanone	18,5%
61788-97-4	epoxy resin	12,0%
9003-39-8	Polyvinylpyrrolidone (PVP)	0,5%

· Remark :

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2,2',2''-nitritotriethanol (CAS No.102-71-6)

Synonym: tris(Hydroxyethyl)amine

Classification of p,p',p''-tris(dimethylamino)tritylium m-[(p-anilinophenyl)azo]benzenesulphonate (CAS No. 65294-17-9) is not covered by company database and is provided by client.

4 First aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

- **After skin contact:**

Immediately 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. Then consult a doctor.

- **After swallowing:**

Rinse out mouth with water.

Call for a doctor immediately.

- **Information for doctor:**

- **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 Firefighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Avoid contact with eyes.

Avoid contact with skin.

Ensure adequate ventilation.

- **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.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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7 Handling and storage

- **Handling**
- **Precautions for safe handling**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** 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.
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

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

100-51-6 Benzyl alcohol

MAK (Germany)	vgl.Abschn.IIb
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122-99-6 2-Phenoxyethanol

AGW (Germany)	110 mg/m ³ , 20 ppm 2(I);DFG, H, Y
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57-55-6 propane-1,2-diol

MAK (Germany)	vgl.Abschn.IIb
WEL (Great Britain)	474* 10** mg/m ³ , 150* ppm *total vapour and particulates **particulates

102-71-6 2,2',2''-nitritotriethanol

MAK (Germany)	5E mg/m ³
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- **DNELs:** Data not available.
- **PNECs:** Data not available.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure**
- **Personal protective equipment**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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· 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.

· Eye protection:

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information****· Appearance:**

Form:	Gel
Colour:	Black
· Odour:	Odourless
· Odour threshold:	Data not available.

· pH-value: Data not available.

· Change in condition:

Melting point/Melting range: Data not available.

Boiling point/Boiling range: Data not available.

· Freezing point: Data not available.

· Flash point: Data not available.

· Flammability (solid, gaseous): Not applicable.

· Auto-ignition temperature: Data not available.

· Decomposition temperature: Data not available.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits

Lower: Data not available.

Upper: Data not available.

· Oxidizing properties: Data not available.

· Vapour pressure: Data not available.

· Density: Data not available.

· Relative density: Data not available.

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- | | |
|---|---------------------|
| · Vapour density: | Data not available. |
| · Evaporation rate: | Data not available. |
| · Solubility in / Miscibility with water: | Data not available. |
| · Partition coefficient (n-octanol/water): | Data not available. |
| · Viscosity: | |
| Dynamic: | Data not available. |
| Kinematic: | Data not available. |
| · Other information | Data not available. |

10 Stability and reactivity

- **Reactivity** No decomposition if used according to specifications.
- **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:** Strong oxidizing agents
- **Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

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

100-51-6 Benzyl alcohol

Oral	LD50	1230 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

122-99-6 2-Phenoxyethanol

Oral	LD50	1260 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

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

Oral	LD50	20000 mg/kg (rat)
Dermal	LD50	20800 mg/kg (rabbit)

9003-39-8 Polyvinylpyrrolidone (PVP)

Oral	LD50	>40000 mg/kg (mouse) 100000 mg/kg (rat)
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102-71-6 2,2',2''-nitrioltriethanol

Oral	LD50	5846 mg/kg (mouse) 2200 mg/kg (rabbit)
Dermal	LD50	>22500 mg/kg (rabbit)

- **Primary irritant effect**
- **on the skin:** Irritating effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible.
- **Toxicokinetics, metabolism and distribution:** No further relevant information available.
- **Acute effects (acute toxicity, irritation and corrosivity):** No further relevant information available.
- **Repeated dose toxicity:** No further relevant information available.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
No further relevant information available.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · ADR, IMDG, IATA | Not applicable. |
| · UN proper shipping name | |
| · ADR, IMDG, IATA | Not applicable. |
| · Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
| · Class | Not applicable. |
| · Packing group | |
| · ADR, IMDG, IATA | Not applicable. |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

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15 Regulatory information

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

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

None of the ingredients is listed.

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

None of the ingredients is listed.

- **TSCA(Toxic Substances Act):**

65294-17-9 *p,p',p''-tris(dimethylamino)tritylium m-[(p-anilinophenyl)azo]benzenesulphonate*100-51-6 *Benzyl alcohol*122-99-6 *2-Phenoxyethanol*25054-06-2 *Formaldehyde, polymer with cyclohexanone*57-55-6 *propane-1,2-diol*102-71-6 *2,2',2''-nitrilotriethanol*9003-39-8 *Polyvinylpyrrolidone (PVP)*

- **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.

- **Cancerogenity categories**

- **EPA(Environmental Protection Agency):**

None of the ingredients is listed.

- **IARC(International Agency for Research on Cancer):**

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

3

9003-39-8 *Polyvinylpyrrolidone (PVP)*

3

- **NTP(National Toxicology Program):**

None of the ingredients is listed.

- **TLV(Threshold Limit Value established by ACGIH):**

None of the ingredients is listed.

- **MAK(German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

- **National regulations:**

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **Other regulations, limitations and prohibitive regulations**

- **REACH Regulation Annex XVII Restriction List (9/2/2012)**

100-51-6 *Benzyl alcohol*122-99-6 *2-Phenoxyethanol*

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· **Candidate List of Substances of very high concern (SVHC) according to ECHA (19/12/2011)**

None of the ingredients is listed.

· **REACH Regulation Annex XIV Authorization List (15/2/2012)**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

· **Relevant phrases**

H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 R20/22 Harmful by inhalation and if swallowed.
 R22 Harmful if swallowed.
 R36 Irritating to eyes.
 R36/37/38 Irritating to eyes, respiratory system and skin.

· **Recommended restriction of use**

REACH Annex XVII Restricted -3
 Liquid substances or mixtures, which are regarded as dangerous according to the definitions in Council Directive 67/548/EEC and Directive 1999/45/EC.
 2-phenoxyethanol (CAS No.122-99-6)
 Benzyl alcohol (CAS No.100-51-6)

1. Shall not be used in:

- ornamental articles, intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent unless required for fiscal reasons or perfume or both and if they:

- present an aspiration hazard and are labelled with R65 or H304, and,
- can be used as fuel in decorative lamps, and,
- are packaged in containers of a capacity of 15 litres or less.

4. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of substances and mixtures covered by paragraph 3, where intended for use in lamps, is marked visibly, legibly and indelibly as follows:

"Keep lamps filled with this liquid out of the reach of children".

The contents and format of this MSDS/SDS are in accordance with REGULATION (EC) No 1272/2008, REGULATION (EC) No 1907/2006, Regulation (EU) No 453/2010 and EU Commission Directive 1999/45/EC, 67/548/EEC.

DISCLAIMER OF LIABILITY :

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

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· Abbreviations and acronyms:*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)**RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**IMDG: International Maritime Code for Dangerous Goods**IATA: International Air Transport Association**ICAO: International Civil Aviation Organization**GHS: Globally Harmonized System of Classification and Labelling of Chemicals**ACGIH: American Conference of Governmental Industrial Hygienists**DNEL: Derived No-Effect Level (REACH)**PNEC: Predicted No-Effect Concentration (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent*

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