

## SDS Report

No. SHATY1501242401

Date: Mar. 9, 2015

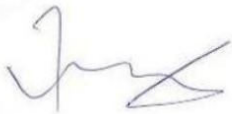
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SGS Ref. No. : SHTY150100001031-SH  
Sample Name : Ball pen ink (black)  
End Uses : Writing  
Composition/Ingredient of sample (as per client submission) : See *Section 3 Composition/information on ingredients* on the SDS report  
Job Receiving Date : Jan 20, 2015  
Last Information Date : Feb 10, 2015  
SDS Preparation Period : Jan 20-Feb 10, 2015

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 European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010, and is provided per attached.

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



Wei WANG, Terry  
Approved Signatory



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**Safety data sheet**  
**Regulation(EC) No. 1907/2006, 1272/2008**

Printing date 10.02.2015

Revision: 09.02.2015

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

- **1.1 Product identifier**
- Trade name: Ball pen ink (black)
- Article number: 1001
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- Application of the substance / the mixture Writing
- **1.3 Details of the supplier of the safety data sheet**
- Manufacturer/Supplier:
  
- **Only Representative / other EU contact point**
  
- **Further information obtainable from:**
  
- **1.4 Emergency telephone number:**
  
- **1.5 Reference number:** SHTY150100001031-SH; SHATY1501242401

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1      H318 Causes serious eye damage.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
 Skin Sens. 1      H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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



Xn; Harmful

R22: Harmful if swallowed.



Xi; Irritant

R36: Irritating to eyes.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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# Safety data sheet

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

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

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- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of Regulation (EC) No 1272/2008.
- **Classification system:**  
The classification is according to the latest edition of the Directives 67/548/EEC, 1999/45/EC and Regulation (EC) No. 1272/2008, and extended by company and literature data.

### · 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to Regulation (EC) No 1272/2008.
- **Hazard pictograms**



GHS05 GHS07

### · Signal word Danger

- **Hazard-determining components of labelling:**  
sodium 3-(p-anilinophenylazo)benzenesulphonate  
Epoxy resins

### · Hazard statements

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

### · 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.
- P310 Immediately call a POISON CENTER/doctor.
- P321 Specific treatment (see on this label).
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### · 2.3 Other hazards

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

#### · Description:

Mixture of the substances listed below with nonhazardous additions.  
For the wording of the listed risk phrases refer to section 16.

#### · Composition:

|  |   |       |
|--|---|-------|
| CAS: 25038-59-9  | Polyethylene terephthalate  | 20,0% |
| CAS: 100-51-6<br>EINECS: 202-859-9<br>Index number: 603-057-00-5 | Benzyl alcohol<br>Xn R20/22<br>Acute Tox. 4, H302; Acute Tox. 4, H332 | 16,0% |

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|  |   |       |
|--|---|-------|
| CAS: 122-99-6<br>EINECS: 204-589-7<br>Index number: 603-098-00-9 | 2-Phenoxyethanol<br>☒ Xn R22; ☒ Xi R36<br>☠ Acute Tox. 4, H302; Eye Irrit. 2, H319  | 15,0% |
| CAS: 61788-97-4  | Epoxy resins<br>☒ Xi R36/38; ☒ Xi R43; ☠ N R51/53<br>☠ Aquatic Chronic 2, H411; ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 13,0% |
| CAS: 1328-51-4<br>EINECS: 215-523-1                              | disulfo copper phthalocyanine amine salt  | 10,0% |
| CAS: 57-55-6<br>EINECS: 200-338-0                                | propane-1,2-diol<br>substance with a Community workplace exposure limit   | 9,0%  |
| CAS: 587-98-4<br>EINECS: 209-608-2                               | sodium 3-(p-anilinophenylazo)benzenesulphonate<br>☒ Xi R41; ☠ N R51/53<br>☠ Eye Dam. 1, H318; ☠ Aquatic Chronic 2, H411                       | 6,0%  |
| CAS: 52080-58-7  | [4-[4,4'-Bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]methylimine   | 6,0%  |
| CAS: 102-71-6<br>EINECS: 203-049-8                               | 2,2',2''-nitrioltriethanol<br>substance with a Community workplace exposure limit   | 3,0%  |
| CAS: 9003-39-8   | 2-Pyrrolidinone, 1-ethenyl-, homopolymer  | 1,0%  |
| CAS: 112-80-1<br>EINECS: 204-007-1                               | oleic acid, pure<br>substance with a Community workplace exposure limit   | 1,0%  |

**Remark:**

disulfo copper phthalocyanine amine salt (CAS No.1328-51-4)  
 Synonym: Solvent Blue 38

sodium 3-(p-anilinophenylazo)benzenesulphonate (CAS No.587-98-4)  
 Synonym: Acid Yellow 36

[4-[4,4'-Bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]methylimine (CAS No.52080-58-7)  
 Synonym: C.I.Solvent Violet 8

2,2',2''-nitrioltriethanol (CAS No.102-71-6)  
 Synonym: Tris(2-hydroxyethyl)amine

2-Pyrrolidinone, 1-ethenyl-, homopolymer (CAS No.9003-39-8)  
 Synonym: polyvinyl pyrrolidone

Benzyl alcohol (CAS No.100-51-6)  
 REACH Registration Number is 17-2119488852-24-0000

2-Phenoxyethanol (CAS No.122-99-6)  
 REACH Registration Number is 17-2119488853-22-0000

propane-1,2-diol (CAS No.57-55-6)  
 Synonym: 1,2-Propanediol  
 REACH Registration Number is 17-2119488856-16-0000

**SECTION 4: First aid measures****4.1 Description of first aid measures****After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

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- **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. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth with water.  
Never give anything by mouth to an unconscious person.  
Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear fully protective suit.  
Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Avoid breathing vapors, mist or gas.  
Avoid contact with eyes.  
Avoid contact with skin.
- **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 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.
- **6.4 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.  
Prevent formation of aerosols.

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- Avoid contact with skin and eyes.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 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.
- **Further information about storage conditions:**  
 Keep container tightly sealed.  
 Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

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

|   |  |
|---|--|
| <b>100-51-6 Benzyl alcohol (16,0%)</b>            |  |
| MAK (Germany)                                     | vgl.Abschn.IIb   |
| <b>122-99-6 2-Phenoxyethanol (15,0%)</b>          |  |
| AGW (Germany)                                     | Long-term value: 110 mg/m <sup>3</sup> , 20 ppm<br>2(I);DFG, H, Y, 11                                    |
| <b>57-55-6 propane-1,2-diol (9,0%)</b>            |  |
| MAK (Germany)                                     | als Dampf und Aerosol;vgl.Abschn.IIb   |
| WEL (Great Britain)                               | Long-term value: 474* 10** mg/m <sup>3</sup> , 150* ppm<br>*total vapour and particulates **particulates |
| <b>102-71-6 2,2',2''-nitrioltriethanol (3,0%)</b> |  |
| MAK (Germany)                                     | Long-term value: 5E mg/m <sup>3</sup>  |
| <b>112-80-1 oleic acid, pure (1,0%)</b>           |  |
| MAK (Germany)                                     | vgl.Abschn.Xc  |

- **DNELs:** Not applicable
- **PNECs:** Not applicable
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**
- **Appropriate engineering controls:**  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Avoid contact with the eyes and skin.  
 See Section 7 for information about design of technical facilities.
- **Personal protective equipment:**
- **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.
- **Protection of hands:**



Protective gloves

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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

· **Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **Appearance:**

|                           |                     |
|---------------------------|---------------------|
| · <b>Form:</b>            | Gel                 |
| · <b>Colour:</b>          | Black               |
| · <b>Odour:</b>           | Odourless           |
| · <b>Odour threshold:</b> | Data not available. |

· **pH-value:** 6~10

· **Change in condition**

|                                       |                    |
|---------------------------------------|--------------------|
| · <b>Melting point/Melting range:</b> | -50~20 °C          |
| · <b>Boiling point/Boiling range:</b> | 180~300 °C         |
| · <b>Freezing point:</b>              | Data not available |

· **Flash point:** Data not available

· **Flammability (solid, gaseous):** Not applicable

· **Auto-Ignition temperature:** Data not available

· **Decomposition temperature:** Date not available.

· **Self-igniting:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

|                 |                     |
|-----------------|---------------------|
| · <b>Lower:</b> | Data not available. |
| · <b>Upper:</b> | Data not available. |

· **Oxidising properties** Data not available.

· **Vapour pressure at 100 °C:** 13,3 mm Hg

· **Density at 25 °C:** 1,1 g/cm<sup>3</sup> (lit.)

· **Relative density** Data not available.

· **Vapour density** Data not available.

· **Evaporation rate** Data not available.

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- |   |  |
|---|--|
| · <b>Solubility in / Miscibility with water:</b>  | Data not available                         |
| · <b>Partition coefficient (n-octanol/water):</b> | Data not available.                        |
| · <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                   | 5000±1000 mPas                             |
| <b>Kinematic:</b>                                 | Data not available.                        |
| · <b>9.2 Other information</b>                    | No further relevant information available. |

### SECTION 10: Stability and reactivity

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

### SECTION 11: Toxicological information

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

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

**100-51-6 Benzyl alcohol**

|        |      |   |
|--------|------|---|
| Oral   | LD50 | 1360 mg/kg (mouse)<br>1230 mg/kg (rat)<br>1040 mg/kg (rabbit) |
| Dermal | LD50 | 2000 mg/kg (rabbit)   |

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

|        |      |                                       |
|--------|------|---------------------------------------|
| Oral   | LD50 | 933 mg/kg (mouse)<br>1260 mg/kg (rat) |
| Dermal | LD50 | 5000 mg/kg (rabbit)                   |

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

|        |      |  |
|--------|------|--|
| Oral   | LD50 | 22000 mg/kg (mouse)<br>20000 mg/kg (rat)<br>18500 mg/kg (rabbit) |
| Dermal | LD50 | 20800 mg/kg (rabbit)   |

**25038-59-9 Polyethylene terephthalate**

|      |      |                   |
|------|------|-------------------|
| Oral | LD50 | >5000 mg/kg (rat) |
|------|------|-------------------|

**9003-39-8 2-Pyrrolidinone, 1-ethenyl-, homopolymer**

|      |      |   |
|------|------|---|
| Oral | LD50 | > 40000 mg/kg (mouse)<br>100000 mg/kg (rat) |
|------|------|---|

**112-80-1 oleic acid, pure**

|      |      |  |
|------|------|--|
| Oral | LD50 | 28000 mg/kg (mouse)<br>74000 mg/kg (rat) |
|------|------|--|

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

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5846 mg/kg (mouse)    |
|        |      | 5530 mg/kg (rat)      |
|        |      | 2200 mg/kg (rabbit)   |
| Dermal | LD50 | >22500 mg/kg (rabbit) |

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitisation:**
  - Sensitisation possible through skin contact.
  - Sensitization possible.
- **Additional toxicological information:**
  - The product shows the following dangers according to the calculation method based on the EU Directives 67/548/EEC, 1999/45/EC and Regulation 1272/2008/EC:
  - Harmful
  - Irritant
- **Toxicokinetics, metabolism and distribution** Data not available
- **Acute effects (acute toxicity, irritation and corrosivity)** Data not available
- **Repeated dose toxicity** Data not available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Data not available

**SECTION 12: Ecological information**

- **12.1 Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.
- **12.7 Additional ecological information:**
  - **General notes:**
    - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - Danger to drinking water if even small quantities leak into the ground.
    - Harmful to aquatic organisms

**SECTION 13: Disposal considerations**

- **13.1 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.

EU

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### SECTION 14: Transport information

|  |                 |
|--|-----------------|
| · 14.1 UN-Number<br>· ADR, IMDG, IATA  | Not applicable  |
| · 14.2 UN proper shipping name<br>· ADR, IMDG, IATA                            | Not applicable  |
| · 14.3 Transport hazard class(es)<br>· ADR, IMDG, IATA<br>· Class              | Not applicable  |
| · 14.4 Packing group<br>· ADR, IMDG, IATA                                      | Not applicable  |
| · 14.5 Environmental hazards<br>· Marine pollutant:                            | No              |
| · 14.6 Special precautions for user  | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":   | -               |

### SECTION 15: Regulatory information

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

· MAK (German Maximum Workplace Concentration)

|          |                  |    |
|----------|------------------|----|
| 112-80-1 | oleic acid, pure | 3A |
|----------|------------------|----|

· National regulations:

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Other regulations, limitations and prohibitive regulations

· SVHC Candidate List of REACH Regulation Annex XIV Authorisation (17/12/2014)

None of the ingredients is listed.

· REACH Regulation Annex XVII Restriction (8/5/2014)

None of the ingredients is listed.

· REACH Regulation Annex XIV Authorization List (14/8/2014)

None of the ingredients is listed.

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

### SECTION 16: Other information

· Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

R20/22 Harmful by inhalation and if swallowed.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

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*R41 Risk of serious damage to eyes.**R43 May cause sensitisation by skin contact.**R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

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*The contents and format of this 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 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.*

**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)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*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)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*Acute Tox. 4: Acute toxicity, Hazard Category 4*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*

*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*

*Skin Sens. 1: Sensitisation - Skin, Hazard Category 1*

*Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2*

*Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*

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*End of document*

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