

SDS Report

No. SHAHG1107903507

Date: Jun. 8, 2011

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Client's name: SHANGHAI NNW NEW MATERIALS
TECHNOLOGY CO., LTD.
Client's address: ROOM 106, NO 33 LE SHAN RD, XUHUI
DISTRICT, SHANGHAI

SGS Ref No. : SHHG1105012664SD
Product Name: HIGHLIGHTER INK - DYE (CLG)
End Uses: TO WRITE
Composition/Ingredient: *SEE SECTION 3 COMPOSITION/ INFORMATION
ON INGREDIENTS ON THE NEXT PAGE*

Job Receiving Date: May 27, 2011
Preparation Period: May 27– June 3, 2011

Service Requested

Safety Data Sheet for the Product

SUMMARY

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

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Lindy Liu
Lab Manager

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Safety data sheet

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

Printing date 08.06.2011

Revision: 08.06.2011

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

- **Product identifier**
- **Trade name:** Highlighter ink -dye(CLG)
- **Article number:** Data not available
- **Registration number:** Data not available
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance/ the preparation:** to write

- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Shanghai NNW New Materials Technology Co., Ltd.
Room 106, No 33 LE Shan Rd, XuHui District, Shanghai
Tel: 021-64476059
Fax: 021-64476096
- **Only Representative / other EU contact point** European Union Member State contact not available.
- **Further information obtainable from:** Shanghai NNW New Materials Technology Co., Ltd.
- **Emergency telephone number:** 021-64476065-610
- **Email:** sales@nnwchina.com
- **Reference number:** SHHG1105012664SD; SHAHG1107903507

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Not applicable
- **Hazard pictograms** Not applicable
- **Signal word** Not applicable

- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements** Not applicable
- **Precautionary statements** Not applicable
- **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.

- **Dangerous components:**

CAS: 56-81-5 EINECS: 200-289-5	glycerol	10,0%
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- **Non-dangerous component:**

CAS: 6358-69-6 EINECS: 228-783-6	trisodium 8-hydroxypyrene-1,3,6-trisulphonate	1,0%
CAS: 2650-18-2 EINECS: 220-168-0	diammonio(ethyl)[4-[[4-[ethyl(3-sulphonatobenzyl)amino]phenyl](2-sulphonatophenyl)methylene]cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium	0,5%
CAS: 7732-18-5 EINECS: 231-791-2	water	88,5%

- **Remark:**

trisodium 8-hydroxypyrene-1,3,6-trisulphonate (CAS No.6358-69-6)
synonym: Solvent Green 7

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diammonio(ethyl)[4-[[4-[ethyl(3-sulphonatobenzyl)amino]phenyl](2-sulphonatophenyl)methylene]cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium (CAS No.2650-18-2)
 synonym: Acid Blue 9

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.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
 Rinse mouth with water.
 If symptoms persist consult doctor.
- **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.
 Wear fully protective suit.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 Ensure adequate ventilation
 Avoid breathing vapors, mist or gas.
- **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).
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
 Ensure good ventilation/exhaustion at the workplace.
 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.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
 Keep container tightly closed in a dry and well-ventilated place.

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· **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:**

56-81-5 glycerol

MAK (Germany)	50E mg/m ³ vgl.Abschn.Xc
WEL (Great Britain)	10 mg/m ³
VME (France)	10 mg/m ³

· **DNELs:** Data not available· **PNECs:** Data not available· **Additional information:** The lists valid during the making were used as basis.· **Exposure controls**· **Based on composition shown in Section 3, the following measures are suggested for occupational safety measure:**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Respiratory protection:** 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.

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

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

Form: Liquid

Colour: Green

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· 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):	Data not available
· auto-Ignition temperature:	Data not available
· Decomposition temperature:	Date 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.
· 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	No further relevant information available.

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

11 Toxicological information

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

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

56-81-5 glycerol

Oral	LD50	4090 mg/kg (mouse)
		12600 mg/kg (rat)

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		27000 mg/kg (rabbit)
7732-18-5 water		
Oral	LD50	90000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritating effect possible.
- **on the eye:** Irritating effect possible.
- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No further relevant information available.

12 Ecological information

- **Toxicity**
- **Acquatic 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** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Packaging group:** -
- **Hazard label:** -
- **UN proper shipping name:**
- **Limited quantities (LQ)** -
- **Transport category** -
- **Tunnel restriction code** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **UN Number:** -

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· **Label** -
 · **Packaging group:** -
 · **EMS Number:** -
 · **Marine pollutant:** No
 · **Proper shipping name:** -

· **Air transport ICAO-TI and IATA-DGR:**
 · **ICAO/IATA Class:** -
 · **UN/ID Number:** -
 · **Label** -
 · **Packaging group:** -
 · **Proper shipping name:** -

· **UN "Model Regulation":** -
 · **Special precautions for user** Not applicable.
 · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** 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 ingredients is listed.

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

None of the ingredients is listed.

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

All ingredients are listed.

· **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.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **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.

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· **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**

· **Candidate List of Substances of very high concern (SVHC) according to ECHA (15/12/2010)**

None of the ingredients is listed.

· **REACH Regulation Annex XVII Restriction(22/6/2009)**

None of the ingredients is listed.

· **REACH Regulation Annex XIV Authorization List(17/2/2011)**

None of the ingredients is listed.

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

16 Other information

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

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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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

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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