

SDS Report

Client's name:

Client's address:

SGS Ref No. : Product Name: End Uses: Composition/Ingredient:

Job Receiving Date: Preparation Period:

Service Requested Safety Data Sheet for the Product

SUMMARY

No. SHAHG1107903513

Date: Jun. 8, 2011

Page 1 of 1

SHANGHAI NNW NEW MATERIALS TECHNOLOGY CO,. LTD. ROOM 106,NO 33 LE SHAN RD, XUHUI DISTRICT, SHANGHAI

SHHG1105012664SD HIGHLIGHTER INK - DYE(CLY) TO WRITE SEE SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS ON THE NEXT PAGE May 27, 2011 May 27– June 3, 2011

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

Lindy Liu Lab Manager

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Standards Technical Server (Shanghai) Co., Ltd.

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Printing date 08.06.2011

Revision: 08.06.2011

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

- · Product identifier
- Trade name: <u>Highlighter ink dye(CLY)</u>
- 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; SHAHG1107903513

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%
· Non-dangerous component:		
CAS: 6358-69-6 EINECS: 228-783-6	trisodium 8-hydroxypyrene-1,3,6-trisulphonate	1,0%
CAS: 7732-18-5 EINECS: 231-791-2	water	89,0%
• Remark: trisodium 8-hydroxy _l synonym: Solvent Gr	pyrene-1,3,6-trisulphonate (CAS No.6358-69-6) reen 7	

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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.
- \cdot 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 contaniner tightly closed in a dry and well-ventilated place.
- **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.

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Control parameters Ingredients with limit values that require monitoring at the workplace:			
MAK (Germany)	50E mg/m ³		
	50E mg/m ³ vgl.Abschn.Xc		
WEL (Great Britain)			
VME (France)	10 mg/m ³		
· DNELs: Data not available			
DNEC. Determent in the			

• **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 messures 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 General Information 		
· Appearance:		
Form:	Liquid	
Colour:	Yellow	
· Odour:	Odourless	
· Odour threshold:	Data not available.	
· pH-value:	Data not available.	
· Change in condition		
Melting point/Melting range:	Data not available.	
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Boiling point/Boiling range: • Freezing point:	Data not available Data not available
· Flash point:	Data not available
· Flammability (solid, gaseous): · auto-Ignition temperature:	Data not available 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: Upper: · Oxidizing properties	Data not available Data not available. Data not available.
· Vapour pressure:	Data not available
· Density:	Data not available.
· Relative density · Vapour density	Data not available. 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: Kinematic: · Other information	Data not available. Data not available. No further relevant information available.

10 Stability and reactivity

• *Reactivity* No decomposition if used according to specification.

- · Chemical stability Stable under recommended storage conditions.
- $\cdot \textit{Possibility of hazardous reactions} \ \textit{No dangerous reactions known}.$
- 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)

27000 mg/kg (rabbit)

7732-18-5 water

Oral LD50 90000 mg/kg (rat)

· Primary irritant effect:

 \cdot on the skin: Irritating effect possible.

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- on the eye: Irritating effect possible.
- Sensitization: Sensitization possible.
- Toxicokinetics, metabolism and distribution No further relevant information availabe.
- · Acute effects (acute toxicity, irritation and corrosivity) No further relevant information availabe.
- · Repeated dose toxicity No further relevant information availabe.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- No further relevant information availabe.

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.
- \cdot 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/R	(cross-boraer)	
ADR/RID class:	-	
Danger code (Kemler)	-	
· UN-Number:	-	
Packaging group:	-	
Hazard label:	-	
UN proper shipping no	me:	
Limited quantities (LQ		
Transport category	-	
• Tunnel restriction cod	-	
Maritime transport IM	DG:	
IMDG Class:	-	
UN Number:	-	
Label	-	
Packaging group:	-	
EMS Number:	-	
Marine pollutant:	No	
Proper shipping name	-	
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Air transport	ICAO-TI and IATA-DGR:
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· 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

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot 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.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

 \cdot 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 Concerntration)

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.

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· 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

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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 ******* End of document