

## SDS Report

No. SHAHG2006659612

Date: May. 18, 2020

Page 1 of 1

SHANGHAI NNW NEW MATERIALS TECHNOLOGY CO.,LTD.  
ROOM 402, Building17, Lane 268, Lingxin Road, Changning District Shanghai 200335, CHINA

SGS Ref. No. : SHHL2004513582SD-SH  
Sample Name : PERMANENT MARKER INK (Purple)  
End Uses : TO WRITE  
Composition/Ingredient of sample (as per client submission) : See *section 3 Composition/information on ingredients* on the SDS report  
Job Receiving Date : Apr 26, 2020  
Last Information Date : Apr 30, 2020  
SDS Preparation Period : Apr 26 – May 11, 2020

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.



Cathy Cai  
Approved Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

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

3<sup>rd</sup> Building, No. 889 Yishan Road Xuhui District, Shanghai China 200233  
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t E&E (86-21) 61402553 f E&E (86-21) 64953679 www.sgs.com.cn  
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 05/11/2020



Version number 1.0

Reviewed on 05/11/2020

### 1 Identification

- **Product identifier**
- **Trade name:** **PERMANENT MARKER INK (Purple)**
- **Recommended use of the chemical and restrictions on use**
- **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 402, Building17, Lane 268, Lingxin Road, Changning District Shanghai 200335, CHINA  
Tel: 021-64476059  
E-mail: tech@nnwchina.com  
Fax: 021-64476096
- **Other US contact point:** Not available
- **Further information obtainable from:** SHANGHAI NNW NEW MATERIALS TECHNOLOGY CO.,LTD.
- **Emergency telephone number:**  
Su Jicheng  
Tel: 13311812200
- USA  
Poison Center  
Tel: +1 800 222 1222
- **Reference Number:** SHHL2004513582SD-SH; SHAHG2006659612

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
- 
 GHS02 Flame  
  
 Flam. Liq. 3 H226 Flammable liquid and vapor.
- **Information concerning particular hazards for human and environment:**  
The product has 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**
- 
 GHS02
- **Signal word** Warning
- **Hazard-determining components of labeling:** Not applicable
- **Hazard statements**  
H226 Flammable liquid and vapor.
- **Precautionary statements**

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. on page 2)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020

Version number 1.0

Reviewed on 05/11/2020

**Trade name: PERMANENT MARKER INK (Purple)**

(Contd. of page 1)

- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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:**

65997-05-9	Rosin, oligomers		35-45%
56-81-5	glycerol		18.0%
64-17-5	ethanol	⚠ Flam. Liq. 2, H225	4-18%
107-98-2	1-methoxy-2-propanol	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	14.0%
57-55-6	propane-1,2-diol		8.0%
12227-55-3	Solvent Red 122		4-6%
12237-24-0	Solvent blue 70		3-5%

### 4 First-aid measures

· **Description of first aid measures**

· **General information:** Immediately remove any clothing soiled by the product.

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

· **After skin contact:**

Immediately rinse with water.

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.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

· **Special protective equipment and precautions for firefighters**

(Contd. on page 3)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020

Version number 1.0

Reviewed on 05/11/2020

**Trade name: PERMANENT MARKER INK (Purple)**

(Contd. of page 2)

- **Protective equipment:**  
Mouth respiratory protective device.  
Wear fully protective suit.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources  
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.  
Ensure adequate ventilation.

### 7 Handling and storage

- **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.  
Avoid contact with skin and eyes.  
For the general occupational hygienic measures refer to section 8.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **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.  
Keep away from ignition sources.
- **Further information about storage conditions:**  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

### 8 Exposure controls/personal protection

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

#### 56-81-5 glycerol (18.0%)

PEL (USA) Long-term value: 15\* 5\*\* mg/m<sup>3</sup>  
mist; \*total dust \*\*respirable fraction

TLV (USA) TLV withdrawn-insufficient data human occup. exp.

#### 64-17-5 ethanol (4-18%)

PEL (USA) Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

(Contd. on page 4)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020

Version number 1.0

Reviewed on 05/11/2020

**Trade name: PERMANENT MARKER INK (Purple)**

(Contd. of page 3)

REL (USA)	Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m <sup>3</sup> , 1000 ppm
<b>107-98-2 1-methoxy-2-propanol (14.0%)</b>	
REL (USA)	Short-term value: 540 mg/m <sup>3</sup> , 150 ppm Long-term value: 360 mg/m <sup>3</sup> , 100 ppm
TLV (USA)	Short-term value: 369 mg/m <sup>3</sup> , 100 ppm Long-term value: 184 mg/m <sup>3</sup> , 50 ppm
<b>57-55-6 propane-1,2-diol (8.0%)</b>	
WEEL (USA)	Long-term value: 10 mg/m <sup>3</sup>

· **Regulatory information**

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)

TLV (USA): Guide to Occupational Exposure Values (ACGIH)

REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

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:**

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **General Information**

· **Appearance:**

**Form:** Liquid

(Contd. on page 5)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020

Version number 1.0

Reviewed on 05/11/2020

**Trade name: PERMANENT MARKER INK (Purple)**

(Contd. of page 4)

<b>Color:</b>	Purple
· <b>Odor:</b>	Odorless
· <b>Odor threshold:</b>	Not available
· <b>pH-value:</b>	Not available
· <b>Melting point/Melting range:</b>	Not available
· <b>Freezing point:</b>	Not available
· <b>Boiling point/Boiling range:</b>	Not available
· <b>Flash point:</b>	23-24 °C
· <b>Flammability (solid, gaseous):</b>	Not applicable
· <b>Auto-Ignition temperature:</b>	Not available
· <b>Decomposition temperature:</b>	Not available
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not available.
<b>Upper:</b>	Not available.
· <b>Vapor pressure:</b>	Not available.
· <b>Density:</b>	Not available.
· <b>Relative density</b>	Not available.
· <b>Vapor density</b>	Not available.
· <b>Evaporation rate</b>	Not available.
· <b>Solubility in / Miscibility with Water:</b>	Not available
· <b>Partition coefficient (n-octanol/water):</b>	Not available
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not available.
<b>Kinematic:</b>	Not available.
· <b>Other information</b>	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

- **Acute toxicity:**

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

#### 56-81-5 glycerol

Oral	LD50	4,090 mg/kg (mouse) 12,600 mg/kg (rat) 27,000 mg/kg (rabbit)
Dermal	LD50	>10,000 mg/kg (rabbit)

(Contd. on page 6)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020

Version number 1.0

Reviewed on 05/11/2020

**Trade name: PERMANENT MARKER INK (Purple)**

(Contd. of page 5)

**64-17-5 ethanol**

Oral	LD50	3,450 mg/kg (mouse)
		7,060 mg/kg (rat)
		6,300 mg/kg (rabbit)
Inhalative	LC50/4 h	20,000 mg/l (rat)

**107-98-2 1-methoxy-2-propanol**

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)

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

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

- **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)**

64-17-5	ethanol	1
---------	---------	---

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

## 13 Disposal considerations

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

USA

(Contd. on page 7)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020



Version number 1.0

Reviewed on 05/11/2020

Trade name: **PERMANENT MARKER INK (Purple)**

(Contd. of page 6)

### 14 Transport information

· <b>UN-Number</b> · <b>DOT, IMDG, IATA</b>	UN1993
· <b>UN proper shipping name</b> · <b>DOT</b> · <b>IMDG</b> · <b>IATA</b>	Flammable liquids, n.o.s. (Ethanol, 1-Methoxy-2-propanol) FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), 1-METHOXY-2-PROPANOL) FLAMMABLE LIQUID, N.O.S. (ETHANOL, 1-METHOXY-2-PROPANOL)
· <b>Transport hazard class(es)</b> · <b>DOT</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>IMDG, IATA</b>	
	
· <b>Class</b> · <b>Label</b>	3 Flammable liquids 3
· <b>Packing group</b> · <b>DOT, IMDG, IATA</b>	III
· <b>Environmental hazards</b>	Not applicable.
· <b>Special precautions for user</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Flammable liquids F-E, S-E A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL), 1-METHOXY-2-PROPANOL), 3, III

### 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.

(Contd. on page 8)

USA



# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020

Version number 1.0

Reviewed on 05/11/2020

**Trade name: PERMANENT MARKER INK (Purple)**

(Contd. of page 7)

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

None of the ingredients is listed.

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

65997-05-9	Rosin, oligomers	ACTIVE
56-81-5	glycerol	ACTIVE
64-17-5	ethanol	ACTIVE
107-98-2	1-methoxy-2-propanol	ACTIVE
57-55-6	propane-1,2-diol	ACTIVE

**· 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:**

64-17-5	ethanol	
---------	---------	--

**· New Jersey Right-to-Know List:**

56-81-5	glycerol	
64-17-5	ethanol	
107-98-2	1-methoxy-2-propanol	
57-55-6	propane-1,2-diol	

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

64-17-5	ethanol	CA, MU, TE, F3
107-98-2	1-methoxy-2-propanol	F3

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

56-81-5	glycerol	
64-17-5	ethanol	
107-98-2	1-methoxy-2-propanol	
57-55-6	propane-1,2-diol	

**· 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)**

64-17-5	ethanol	A3
---------	---------	----

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

None of the ingredients is listed.

## 16 Other information

**· Relevant hazard statements**

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H336 May cause drowsiness or dizziness.

(Contd. on page 9)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 05/11/2020

Version number 1.0

Reviewed on 05/11/2020

**Trade name: PERMANENT MARKER INK (Purple)**

(Contd. of page 8)

· \*\*\*\*\*

*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** 05/11/2020 / -

### · **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*

*Flam. Liq. 2: Flammable liquids – Category 2*

*Flam. Liq. 3: Flammable liquids – Category 3*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

· \*\*\*\*\*

*End of document*