

## SDS Report

No. SHAHG2003100201

Date: Apr. 16, 2020

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SHANGHAI NNW NEW MATERIALS TECHNOLOGY CO.,LTD.

ROOM 402, Building17, Lane 268, Lingxin Road, Changning District Shanghai 200335, CHINA

SGS Ref. No. : SHHL2003505634SD-SH  
 Sample Name : WHITEBOARD INK (RED)  
 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 : Mar 13, 2020  
 Last Information Date : Apr 13, 2020  
 SDS Preparation Period : Mar 13 – Apr 13, 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 European Commission Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 2015/830, and is provided per attached.

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

Cathy Cai

Cathy Cai  
 Approved Signatory



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

Printing date 13.04.2020

Version number 1.0

Revision: 13.04.2020

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

- **1.1 Product identifier**
- **Trade name:** WHITEBOARD INK (RED)
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture:** TO WRITE

- **1.4 Emergency telephone number:**

Su Jicheng  
Tel: 13311812200

**FRANCE**

Anti-poison center ORFILA (INRS)  
Tel: +33 (0)1 45 42 59 59

**GERMANY**

Poison Center Berlin - Institute of Toxicology  
Tel: +49 030 192 40

- **1.5 Reference Number:** SHHL2003505634SD-SH; SHAHG2003100201

**SECTION 2: Hazards identification**

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



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

- **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 EU 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 CLP Regulation.
- **Hazard pictograms**



GHS02

- **Signal word** Danger

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- **Hazard-determining components of labelling:** Not applicable
- **Hazard statements**  
H225 Highly flammable liquid and vapour.
- **Precautionary statements**
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
  - 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 [or shower].
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - 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 substances listed below with nonhazardous additions.  
For the wording of the listed hazard statements refer to section 16.

- **Composition:**

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol Flam. Liq. 2, H225	20.0%
CAS: 25322-68-3 NLP: 500-038-2	Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated substance with a Community workplace exposure limit	20.0%
CAS: 57-55-6 EINECS: 200-338-0	propane-1,2-diol substance with a Community workplace exposure limit	18.5%
CAS: 9004-96-0 NLP: 500-015-7	Oleic acid, ethoxylated	17.0%
CAS: 25168-73-4 EINECS: 246-705-9	sucrose stearate	17.0%
CAS: 84632-65-5	3,6-Bis(4-chlorophenyl)pyrrolo[3,4-c]pyrrole-1,4(2H,5H)-dione	6.0%
CAS: 63148-65-2	Butvar B-98	1.5%

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General description:** 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.

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*Seek medical treatment.***· 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:***CO<sub>2</sub> powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***· For safety reasons unsuitable extinguishing agents: Water with full jet****· 5.2 Special hazards arising from the substance or mixture** *No further relevant information available.***· 5.3 Advice for firefighters****· Protective equipment:***Mouth respiratory protective device.**Wear fully protective suit.***SECTION 6: Accidental release measures****· 6.1 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.***· 6.2 Environmental precautions: 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.**Avoid contact with skin and eyes.**For the general occupational hygienic measures refer to section 8.***· Information about fire - and explosion protection:***Keep ignition sources away - Do not smoke.**Protect against electrostatic charges.*

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- **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.  
Keep away from ignition sources.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **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:**

###### **64-17-5 ethanol (20.0%)**

AGW (Germany)	Long-term value: 380 mg/m <sup>3</sup> , 200 ppm 4(II);DFG, Y
VLEP (France)	Short-term value: 9500 mg/m <sup>3</sup> , 5000 ppm Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm

###### **25322-68-3 Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (20.0%)**

MAK (Germany)	Long-term value: 250 E mg/m <sup>3</sup> mittlere Molmasse 200-600; vgl. Abschn. Xc
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###### **57-55-6 propane-1,2-diol (18.5%)**

MAK (Germany)	als Dampf und Aerosol; vgl. Abschn. IIb und Xc
---------------	--

#### · **Regulatory information**

AGW (Germany): TRGS 900  
VLEP (France): ED 984, 10.2016  
MAK (Germany): MAK- und BAT-Liste

· **DNELs:** Data not available

· **PNECs:** Data not available

· **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:**

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:**

· **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.

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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:**

Form: Liquid

Colour: Red

· **Odour:** Odourless

· **Odour threshold:** Data not available.

· **pH-value:** Data not available.

· **Melting point/freezing point:** Data not available.

· **Initial boiling point and boiling range:** Data not available

· **Flash point:** 20-22 °C

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

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

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

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

· **Explosive properties:** Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.

· **Explosion limits:**

Lower: Data not available.

Upper: Data not available.

· **Oxidising 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

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- **Partition coefficient: n-octanol/water:** Data not available.
- **Viscosity:**
  - Dynamic:** Data not available.
  - Kinematic:** Data not available.
- **9.2 Other information** 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** Based on available data, the classification criteria are not met.

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

##### **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)

##### **25322-68-3 Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated**

Oral	LD50	28,915 mg/kg (mouse)
		22,000 mg/kg (rat)
		14,000 mg/kg (rabbit)

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

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

##### **9004-96-0 Oleic acid, ethoxylated**

Oral	LD50	>25,000 mg/kg (mouse)
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- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

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### 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 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.

### 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.

### SECTION 14: Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR/RID/ADN, IMDG, IATA</b></li> </ul>  | UN1170   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID/ADN, IMDG</b></li> <li>· <b>IATA</b></li> </ul>                                       | ETHANOL (ETHYL ALCOHOL) mixture<br>ETHANOL mixture |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID/ADN, IMDG, IATA</b></li> </ul>   |  |
|   |  |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>   | 3 Flammable liquids.<br>3                          |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID/ADN, IMDG, IATA</b></li> </ul>  | II   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards</b></li> </ul>  | Not applicable.                                    |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> </ul> | Warning: Flammable liquids.<br>33<br>F-E,S-D       |

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· <b>Stowage Category</b>	A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>14.8 Transport/Additional information:</b>	
· <b>ADR/RID/ADN</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1170 ETHANOL (ETHYL ALCOHOL) MIXTURE, 3, II

### SECTION 15: Regulatory information

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

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

64-17-5 ethanol

5

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category P5c FLAMMABLE LIQUIDS**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

· **National regulations:**

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

· **Other regulations, limitations and prohibitive regulations**

· **SVHC Candidate List of REACH Regulation Annex XIV Authorisation (16/1/2020)**

None of the ingredients is listed.

· **REACH Regulation Annex XVII Restriction (20/6/2019)**

See Section 16 for information about restriction of use.

None of the ingredients is listed.

· **REACH Regulation Annex XIV Authorization List (13/6/2017)**

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 hazard statements**

H225 Highly flammable liquid and vapour.

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

Flammable liquids Bridging principles

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*The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 1272/2008 and Regulation (EU) No 2015/830.*

**DISCLAIMER OF LIABILITY**

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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)

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

· \*\*\*\*\*

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