

Safety Data Sheet

According to Regulation No 29 CFR 1910.1200

Trade Product: Permanent ink (black)

Product No: N/A

Specification No: SHAHG1503150401

Version: 1

Print Date: 03.10.2019

Revision Date: 03.04.2019

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

1.1 Product identifier:

Product name: Permanent ink (black)

Product No: N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substances/mixture: To write

1.3 Details of the supplier of the safety data sheet

Company name: Neon Orient (Shanghai) Co., Ltd.
Room 516 – 518, No. 583,
Lingling Road. (Offshore Oil Mansion)
Shanghai 200030,
P.R. China
Tel: +(86) 21-64640878

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)



GHS02 Flame

Hazard description: Highly flammable

Information pertaining to particular dangerous for man 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 CFR1910.1200), 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 Danger

Hazard-determining components of labeling: Not applicable.

Hazard statements

H225Highly flammable liquid and vapor.

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

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P280 Wear protective gloves / eye protection / face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P403 + P235 + P501 Store in a well-ventilated place. Keep cool.

Dispose of contents/container in accordance with local/ regional/ national/ international regulations.

Hazards not otherwise classified (HNOC) No further relevant information available.

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SECTION 3: Composition/information on ingredients

Chemical characterization & Description:

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

Dangerous components:		
65997-05-9	Rosin, oligomers	35.0- 45.0%
56-81-5	Glycerol	18.0%
64-17-5	Ethanol ⚠ Flam. Liq. 2, H225	6.0 – 18.0 %
107-98-2	1-methoxy-2-propano ⚠ Irram. Liq. 3, H226; ⚠ STOT SE 3, H336	14.0%
12237-22-8	C.I. Solvent Black 27	7.0 - 9.0%
57-55-6	Propane-1,2-diol	8.0%

SECTION 4: First aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints
After skin contact: Immediately wash with water and soap and rinse thoroughly.
After eye contact: Rinse opened eye for several minutes under running water.
After swallowing: Rinse out mouth with water. If symptoms persist consult doctor.

SECTION 5: Firefighting measures

Suitable extinguishing agent: CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents: Water with full jet
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.
- 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 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).
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents.



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SECTION 7: Handling and storage

7.1 Procedure for safe handling:

- Keep receptacles tightly sealed.
- Keep away from heat and direct sunlight
- Ensure good ventilation/ exhaust at the workplace.
- Prevent formation of aerosols.
- Avoid with contact eye and skin

7.2 Information about protection against explosions and fires:

- Keep ignition sources away – Do not smoke
- Protect against electrostatic charges

7.3 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.
- Store away from flammable substances.

Further information about storage conditions:

- Keep receptacle tightly sealed.
- Store in cool, dry conditions in well-sealed receptacles.

SECTION 8: Exposure controls/personal protection

8.1 Exposure controls

Components with limit values that require monitoring at the workplace:

56-81-5glycerol (18.0%)

PEL (USA)	Long-term value: 15* 5** mg/m ³ mist; *total dust **respirable fraction
TLV (USA)	TLV withdrawn-insufficient data human occup. exp

64-17-5ethanol (6.0-18.0%)

PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m ³ 1000ppm

107-98-21-methoxy-2-propanol (14.0%)

REL (USA)	Short-term value: 540 mg/m ³ , 150 ppm Long-term value: 360 mg/m ³ , 100 ppm
TLV (USA)	Short-term value: 369 mg/m ³ , 100 ppm Long-term value: 184 mg/m ³ , 50 ppm

57-55-6propane-1,2-diol (8.0%)

WELL (USA)	Long-term value: 10 mg/m ³
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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.

Personal protective equipment

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Breathing equipment: Suitable respiratory protective device recommended

Protections 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 of the glove material cannot 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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	Black
Odor:	Odorless
pH- value:	Not available
Change in condition	
Melting point/ Melting range:	Not available
Boiling point/ Boiling range:	Not available
Flash point:	Not available
Flammability (solid, gaseous):	Not available
Ignition temperature:	Not available
Danger of explosion	Product is not explosive. However, formation of explosive air/ vapor mixtures is possible.
Explosion limits:	
Lower:	Not available
Upper:	Not available
Oxidizing properties:	Not available
Vapor pressure:	Not available
Density:	Not available

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Relative density:	Not available
Vapour density:	Not available
Evaporation rate:	Not available
Solubility in/ Miscibility with	
Water:	Not available
Partition coefficient (n-octanol/ water):	Not available
pH-value	Not available
Viscosity:	
Dynamic:	Not available
Additional information	Not available

SECTION 10: Stability and reactivity

Reactivity No decomposition if used according to specifications.

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.

SECTION 11: Toxicological information

Acute toxicity

LD/LC50 values that are relevant for classification:		
57-55-6propane-1,2-diol		
Oral	LD50	20000 mg/kg (rat)
Dermal	LD50	20800 mg/kg (rabbit)
56-81-5glycerol		
Oral	LD50	4090 mg/kg (mouse) 12600 mg/kg (rat) 27000 mg/kg (rabbit)
107-98-21-methoxy-2-propanol		
Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	13000 mg/kg (rabbit)
Inhalative	LD50/4h	6 mg/l (rat)
64-17-5ethanol		
Oral	LD50	7060 mg/kg (rat)
Inhalative	LD50/4h	20000 mg/l (rat)



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Primary irritant effect

On the skin: Irritating effect possible

On the eye: Irritating effect possible

Sensitization: Sensitization possible

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations.

SECTION 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.

SECTION 13: Disposal considerations

Product:


Recommendation:

Must not be disposed of 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

UN-Number DOT, IMDG, IATA	UN1993
UN Proper Shipping name:	
DOT:	Flammable liquids, n.o.s. (Ethanol, 1-Methoxy-2-propanol)
IMDG:	FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYLALCOHOL), 1-METHOXY-2-PROPANOL)
IATA:	FLAMMABLE LIQUID, N.O.S. (ETHANOL, 1-METHOXY-2-PROPANOL)
Transport hazard class (es):	DOT / IMDG / IATA  Flammable liquids
Packing group DOT / IMDG / IATA:	II

Environmental hazards	NO
Marine pollutant:	
Special precautions for user	Warning: Flammable liquids
EMS Number:	F-E, S-E
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable
Transport/Additional information:	
DOT:	
Limited quantities (LQ):	on passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDG	
	IL
Limited quantities (LQ)	Code: E2
Excepted quantities (EQ):	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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UN "Model Regulation":

UN1993, Flammable liquids, n.o.s. (Ethanol (Ethyl alcohol), 1-Methoxy-2-propanol), 3, II

SECTION 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.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
65997-05-9	Rosin, oligomers
56-81-5	glycerol
64-17-5	ethanol
107-98-2	1-methoxy-2-propanol
57-55-6	Propane-1,2-diol

Proposition 65

Chemicals known to cause cancer:	
None of the ingredient 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

Carcinogenicity categories

EPA (Environmental Protection Agency):	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH):	
64-17-5	ethanol
NIOSH-Ca (National Institute for Occupational Safety and Health):	
None of the ingredient is listed.	

SECTION 16: Other information

NFPA ratings (scale 0 - 4)



HMIS ratings (scale 0 - 4)





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Relevant phrases

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

The contents and format of this SDS are in accordance with 29 CFR 1910.1200(g).

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 03/10/2019/ -

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

End of document