

## Safety Data Sheet

According to EU Regulation No 2015/830

Trade Product: Highlighters Ink  
Product No: tba  
Specification No: /

Version: V1.0.0.1

Print Date: 09.07.2019  
Revision Date: -

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

#### 1.1 Product identifier:

Product name: Highlighters Ink (blue, green, pink, yellow, orange, purple)  
Product No: tba

#### 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

**According to Regulation (EC) No. 1272/2008 and its amendments:** Not classified as a dangerous substance.

#### Label Elements

Hazard pictograms: Not applicable

Signal Word: Not applicable

#### Hazard statements

Hazard statements: Not applicable

#### Precautionary statements

Prevention: Not applicable

Response (P305+P351+P338): If into eyes – rinse with water carefully for a few minutes. Remove contact lenses if worn and easily removed. Keep flushing.

Storage: Not applicable

Disposal (P501): Dispose of contents/ containers in accordance with local/ regional/ national/ international regulations.

### SECTION 3: Composition/information on ingredients

Component	Cas No.	EC No.	Index No.	Hazard classification according to CLP	Concentration (weight percent, %)
Water	7732-18-5	231-791-2	-	Not Classified	50%
Glycerol	56-81-5	200-289-5	-	Not Classified	13%
1,2-Propanediol	57-55-6	200-338-0	-	Not Classified	12%
C.I.Acid Blue 1	129-17-9	204-934-1	-	Not Classified	0-25%
C.I.Pigment Green 23	1344-98-5	-	-	Not Classified	0-25%
C.I.Pigment Red 232	68412-79-3	270-210-7	-	Not Classified	0-25%
C.I. Acid yellow 118	5601-29-6	227-022-5	-	Not Classified	0-25%
Acid Orange 7	633-96-5	211-199-0	-	Not Classified	0-25%
Acid Rose Red B	3520-42-1	222-529-8	-	Not Classified	0-25%

### SECTION 4: First aid measures

**General advice:** Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.  
**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable



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- Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
- Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
- Inhalation:** Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
- Protecting of first-aiders:** Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

#### SECTION 5: Firefighting measures

- Suitable extinguish media:** Use extinguishing media suitable for surrounding area.
- Unsuitable extinguish media:** There is not restriction on the type of extinguisher which may be used.
- Specific hazards arising from the substance or mixture.**

- 1) Not flammable, not considered a significant fire risk, however containers may b

**Advice for firefighters**

- 1) As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2) Fight fire from a safe distance, with adequate cover.
- 3) Prevent fire extinguishing water from contaminating surface water or the ground water system.

**Personal precautions, protective equipment and emergency procedures**

- 1) Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 2) Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 3) Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

#### SECTION 6: Accidental release measures

##### 6.1 Environmental precautions:

- Prevent further leakage or spillage if safe to do so.
- Discharge into the environment must be avoided.

##### 6.2 Methods and material for containment and cleaning up:

- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

#### SECTION 7: Handling and storage

##### 7.1 Precautions for handling

**Protective measures**

- Handling is performed in a well ventilated place.
- Wear suitable protective equipment.
- Avoid contact with skin and eyes.

**Measures to prevent fire**

- Keep away from heat/ sparks/ open flames/ hot surfaces.

**Measures to prevent aerosol and dust generation**

- Avoid formation of dust and aerosols.
- Provide appropriate exhaust ventilation at places where dust is formed.

**Advice on general occupational hygiene**

- Wash hands and face after using of the substances.
- Replace the contaminated clothing immediately.

##### 7.2 Conditions for safe storage, including any incompatibilities

- Keep containers tightly closed.
- Keep containers in a dry, cool and well – ventilated place.
- Keep away from heat/ sparks/ open flames/ hot surfaces.
- Store away from incompatible materials and foodstuff containers.

##### 7.3 Specific end uses

- In addition to use mentioned in the first parts, unforeseen other specific end uses.

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational Exposure limit values**

Component	Country/ Region	Limit value – Eight hours		Limit value – Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Glycerin 56-81-5	USA – OSHA	-	15	-	-
	Corea	-	10	-	-
	Ireland	-	10	-	-
	Germany (DFG)	-	50	-	100
	Belgium	-	10	-	-
	Australia	-	10	-	-
1,2-Propanediol 57-55-6	England	-	10	-	-
	New Zealand	150	474	-	-
	Latvia	-	7	-	-
	Ireland	150	10	-	-
	Canada – Ontario	50	10	-	-
	Australia	150	474	-	-

**Biological limit values:** No information available

**Monitoring methods:**

- EN14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
- GBZ/T 160.1 – GBZ/T 160.81-2004 Determination of toxic substances in workplace air

**Derived No effect level (DNEL)**

CAS No.	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
7732-18-5	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

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3520-72-7	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
56-81-5	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
3844-45-9	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
1934-21-0	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
16423-68-0	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
2611-82-7	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
532-32-1	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
3520-42-1	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

**Predicted No Effect Concentration (PNEC):** No information available

### Engineering controls

- Ensure adequate ventilation, especially in confined area.
- Ensure that eye wash stations and safety showers are close to the workstation location.
- Use explosion – proof electrical/ ventilating/ lighting/ equipment.
- Set up emergency exit and necessary risk – elimination area.

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**Personal protection equipment**  
**General requirement:**



- Eye protection:** Tightly fitting safety goggles (approved by EN 166 (EU) or NIOSH (US))  
**Hand protection:** Wear protective gloves (such as butyl rubber), passing the tests according to EN 374 (EU), US F739 or AS/NZS 2161.1 standard.  
**Respiratory protection:** If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi – purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.  
**Skin and body protection:** Wear fire/ flame resistant/ retardant clothing and antistatic boots.

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

<b>General Information</b>	
<b>Appearance:</b>	
Form:	Liquid
<b>Odor:</b>	No information available
<b>Odor threshold:</b>	No information available
<b>pH value:</b>	No information available
<b>Change in condition</b>	
Melting point/ Freezing point (°C):	No information available
Initial boiling point and boiling range (°C):	> 100
<b>Flash point (closed cup, °C):</b>	No information available
<b>Flammability (solid, gaseous):</b>	Not available
<b>Ignition temperature:</b>	Not available
<b>Evaporation rate:</b>	No information available
<b>Explosion limits:</b>	
Lower %(v/v):	No information available
Upper %(v/v):	No information available
<b>Vapor pressure:</b>	No information available
<b>Vapor Density (Air = 1):</b>	No information available
<b>Relative density (Water = 1):</b>	No information available
<b>Solubility (mg/L):</b>	Insoluble in water
<b>Partition coefficient (n-octanol/ water):</b>	No information available
<b>Auto-ignition temperature (°C):</b>	No information available
<b>Decomposition temperature (°C):</b>	No information available
<b>Viscosity (mm²/s):</b>	No information available
<b>Explosive properties:</b>	Not explosive
<b>Oxidizing properties:</b>	Not oxidizing

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### SECTION 10: Stability and reactivity

**Reactivity:** Contact with incompatible substances can cause decomposition or other chemical reactions.  
**Chemical stability:** Stable under proper operation and storage conditions.  
**Possibility of hazardous reactions:** In contact with oxidants causes severe reactions, and may cause a fire or explosion.  
**Conditions to avoid:** In contact with active metals (alkali metals, Na, Ca, etc.) causes a reaction and release hydrogen.  
**Incompatible materials:** Incompatible materials, heat, flame and spark.  
**Hazardous decomposition products:** Oxidants, alkali metals, alkaline earth metals and aluminium. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.  
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

**Acute toxicity:** No information available

#### Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	7732-18-5	Water	Not Listed	Not Listed
2	56-81-5	Glycerol	Not Listed	Not Listed
3	57-55-6	1,3-Propanediol	Not Listed	Not Listed
4	129-17-9	C.I. Acid Blue 1	Not Listed	Not Listed
5	1344-98-5	C.I. Pigment Green 23	Not Listed	Not Listed
6	68412-79-3	C.I. Pigment Red 232	Not Listed	Not Listed
7	5601-29-6	C.I. Acid Yellow 118	Not Listed	Not Listed
8	633-96-5	Acid Orange 7	Not Listed	Not Listed
9	3520-42-1	Acid Rose Red B	Not Listed	Not Listed

**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.  
**Skin sensitization:** Based on available data, the classification criteria are not met.  
**Respiratory sensitization:** Based on available data, the classification criteria are not met.  
**Reproductive toxicity:** Based on available data, the classification criteria are not met.  
**STO – 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.  
**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.  
**Reproductive toxicity (additional):** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

**Acute aquatic toxicity:** No information available  
**Chronic aquatic toxicity:** No information available  
**Persistence and degradability:** No information available  
**Bioaccumulative potential:** No information available  
**Mobility in soil:** No information available

#### Results of PBT and vPvB assessment

Component	CAS No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Water	7732-18-5	not PBT/ vPvB
Glycerol	56-81-5	not PBT/ vPvB

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1,2-Propanediol	57-55-6	not PBT/ vPvB
C.I. Acid Blue 1	129-17-9	not PBT/ vPvB
C.I. Pigment Green 23	1344-98-5	not PBT/ vPvB
C.I. Pigment Red 232	68412-79-3	not PBT/ vPvB
C.I. Acid Yellow 118	5601-29-6	not PBT/ vPvB
Acid Orange 7	633-96-5	not PBT/ vPvB
Acid Rose Red B	3520-42-1	not PBT/ vPvB

### SECTION 13: Disposal considerations

**Waste chemicals:** Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated packaging:** Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

### SECTION 14: Transport information

**Transporting Label:** Not applicable.  
**IMDG – Code:** Not regulated for transport of Dangerous goods.  
**ICAO/ IATA – DG:** Not regulated for transport of Dangerous goods.  
**UN – ADR:** Not regulated for transport of Dangerous goods.

### SECTION 15: Regulatory information

#### Personal protection equipment

CAS No.	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
7732-18-5	✓	✓	✓	✓	✓	✓	✓	✓	✓
56-81-5	✓	✓	✓	✓	✓	✓	✓	✓	✓
57-55-6	✓	✓	✓	✓	✓	✓	✓	✓	✓
129-17-9	✓	✓	✓	✓	✓	✓	✓	✓	✓
1344-98-5	*	*	*	*	*	*	*	✓	*
68412-79-3	✓	✓	✓	✓	✓	✓	✓	✓	✓
5601-29-6	✓	✓	✓	✓	✓	✓	✓	✓	✓
633-96-5	✓	✓	✓	✓	✓	✓	✓	✓	✓
3520-42-1	✓	✓	✓	✓	✓	✓	✓	✓	✓

**EINECS:** European Inventory of Existing Commercial Chemical Substances  
**TSCS:** United States Toxic Substances Control Act Inventory  
**DSL:** Canadian Domestic Substances List  
**IECSC:** China Inventory of Existing Chemical Substances  
**NZIoC:** New Zealand Inventory of Chemicals  
**PICCS:** Philippines Inventory of Chemicals and Chemical Substances  
**KECI:** Existing and Evaluated Chemical Substances  
**AICS:** Australia Inventory of Chemical Substances  
**ENCS:** Existing And New Chemical Substances

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### European chemical inventory

CAS No.	A	B	C	D	E	F	G
7732-18-5	*	*	*	*	*	*	*
56-81-5	*	*	*	*	*	*	*
57-55-6	*	*	*	*	*	*	*
129-17-9	*	*	*	*	*	*	*
1344-98-5	*	*	*	*	*	*	*
68412-79-3	*	*	*	*	*	*	*
5601-29-6	*	*	*	*	*	*	*
633-96-5	*	*	*	*	*	*	*
3520-42-1	*	*	*	*	*	*	*

- A:** Candidate list of Substances of Very High Concern for authorization under EU REACH regulation  
**B:** Substances requiring authorization under EU REACH regulation  
**C:** Substances restricted under EU REACH  
**D:** Pre-registered substances under EU REACH  
**E:** Registered substances under EU REACH  
**F:** Substance Evaluation – CoRAP under EU REACH  
**G:** List of priority substances under EU water policy (Directive 2455/2001/EC)

### Note

- ✓: Indicates that the substance included in the regulations  
 \*: That no data or included in the regulations

## SECTION 16: Other information

### Abbreviations and acronyms

- CAS:** Chemical Abstracts Service  
**PC – STEL:** Short term exposure limit  
**DNEL:** Derived No Effect Level  
**RPE:** Respiratory Protective Equipment  
**LC<sub>50</sub>:** Lethal Concentration 50%  
**NOEC:** No Observed Effect Concentration  
**PBT:** Persistent, Bioaccumulative, Toxic  
**CBF:** Bioconcentration factor (BCF)  
**IMDG:** International Maritime Dangerous Goods  
**CMR:** Carcinogens, mutagens or substances toxic to reproduction  
**PC – TWA:** Time Weighted Average  
**IARC:** International Agency for Research on Cancer  
**PNEC:** Predicted No Effect Concentration  
**LD<sub>50</sub>:** Lethal Dose 50%  
**EC<sub>50</sub>:** Effective concentration 50%  
**POW:** Partition coefficient Octanol: Water  
**vPvB:** very Persistent, very Bioaccumulative  
**ICAO/ IATA:** International Civil Aviation Organization/ International Air Transportation Association  
**ACGIH:** American Conference of Governmental Industrial Hygienists  
**OECD:** Organization for Economic Co-operation and Development

### Disclaimer

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.