

Safety Data Sheet

According to Regulation No 29 CFR 1910.1200

Trade Product: Whiteboard ink (black, blue, red, green)

Product No: N/A

Specification No: SDS201908312

Version: 1

Print Date: 31.08.2019

Revision Date: 31.08.2019

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

1.1 Product identifier:

Product name: Whiteboard ink (black, blue, red, green)

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 regulation (EC)1272/2008:



GHS02 Flame

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



GHS07 Exclamation mark

Eye Irrit.2 H319 Causes serious eye irritation

STOTSE3 H336 May cause drowsiness or dizziness

Classification system:

The classification is according to the latest edition of Regulation1272/2008, and extended by company and literature data

Label elements

Labelling according to Regulation (EC) No 1272/2008: The product is labeled according to CLP regulation

Hazard pictograms



GHS02



GHS07

Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness

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.

P271 Use only outdoors or in a well-ventilated area

P370+P378 In case of fire: Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish. Do not use water with full jet.

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

P405 Store locked up

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P501 Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

2.3 Other hazards
Resule of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable






SECTION 3: Composition/information on ingredients

Chemical characterization: Mixtures

Description:

Mixture of the substances listed below with nonhazardous additions.

For the wording of the listed risk phrases refer to section 16.

Composition:			
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5	Ethanol	 <i>Flam. Liq. 2, H225</i>  <i>Eye Irrit. 2, H319</i>	64.0%~88.2%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	Propan-2-ol	 <i>Flam. Liq. 2, H225</i>  <i>Eye Irrit. 2, H319 STOT SE 3, H336</i>	0%~22%
CAS No.: 63148-65-2 EC No.: 613-158-6	Polyvinyl butyral	 <i>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</i>	4.8.%~5.6%
CAS No.: 1341-38-4 EC No.: 215-675-9	Isocetyl palmitate		3%~6%
CASNo.:1333-86-4 ECNo.:215-609-9	Carbon black Substance with a Community workplace exposure limit		0%~5%
CAS No.:147-14-8 EC No.:205-685-1	Pigment Blue15 Substance with a Community workplace exposure limit		0%~4%
CAS No.:1328-53-6 EC No.:215-524-7	Phthalocyanine Green		0%~4%
CAS No.: 8 4632-65-5 EC No.: 617-603-5	Pigment Red 254		0%~3%

SECTION 4: First aid measures

4.1 Description of first aid measures

General Advice: If medical advice is needed, have product container or label at hand.

After inhalation: Remove person to fresh air and keep comfortable for breathing; Call a POISON CENTER/ doctor /if you feel unwell.

After skin contact: Wash with plenty of water; If skin irritation or rash occurs: Get medical advice/ attention

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After swallowing: Wash mouth. DO not induce vomiting: Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

Most important symptoms and effects, both acute and delayed Cause serious eye irritation; May cause drowsiness or dizziness.

Indication of any immediate medical attention and special treatment needed

Treat according to symptom, there is not known specific medicine.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agent: Water spray, dry chemical or alcohol-resistant foam; Do NOT use CO2 or water with full jets.

5.2 Special hazards arising from the substance or mixture: Thermal decomposition may produce carbon monoxide and other toxic vapors.

5.3 Advice for firefighter

Protective equipment: Wear an approved positive pressure self-contained breathing apparatus(ComplywithEN133).



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Cut off leakage source and collect spillage timely if safe to do it; Keep away from heat, hot surfaces, sparks, Open flames and other ignition sources. No smoking. Ensure adequate ventilation; Wear personal protective equipment; Avoid breathing vapor; Avoid contact with skin and eyes; Beware of accumulation of vapor in low areas or contained areas, where explosive concentrations may occur.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so; Prevent spillage from entering drains, sewer, base menton confined areas; if the spillage contaminates rivers, lakes or drains inform respective authorities.

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 section 13.

SECTION 7: Handling and storage

7.1 Procedure for safe handling:

- Read label before use; Use only outdoors or in a well-ventilated area;
- Keep away from heat, hot surfaces, spark, open flames and other ignition sources. No smoking.
- Wear personal protective equipment
- Avoid breathing vapors
- Use respiratory protective device against the effects of vapor.
- Avoid contact with skin and eyes.

7.2 Information about protection against explosions and fires:

Keep away from heat, hot surfaces, spark, open flames and other ignition sources. No smoking

7.3 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

- Store in a cool and well-ventilation location

Information about storage in one common storage facility:

- Keep out of reach of children.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Further information about storage conditions:

- Store locked up

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:		
Country	Limit value – Eight hours	Limit value – Short term
64-17-5 ethanol		
Austria	1000ppm;1900mg/m ³	2000ppm;3800mg/m ³
Belgium	1000ppm;1907mg/m ³	-
Denmark	1000ppm;1900mg/m ³	2000ppm;3800mg/m ³
Finland	1000ppm;1900mg/m ³	1300ppm;2500mg/m ³ 15 minutes average value
France	1000ppm;1900mg/m ³	5000ppm;9500mg/m ³
Germany (AGS)	200ppm;380mg/m ³	800ppm;1520mg/m ³ 15 minutes average value

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Germany (DGF)	200ppm;380mg/m ³	800ppm;1520mg/m ³ 15 minutes average value
Hungary	1900mg/m ³	7600mg/m ³
Ireland	-	1000ppm15 minutes reference period
Latvia	1000mg/m ³	-
Poland	1900mg/m ³	-
Romania	1000ppm;1900mg/m ³	5000ppm;9500mg/m ³ 15 minutes average value
Spain	-	1000ppm;1910mg/m ³
Sweden	500ppm;1000mg/m ³	1000ppm;1900mg/m ³ 15 minutes average value
The Netherlands	260mg/m ³	1900mg/m ³
United Kingdom	1000ppm;1900mg/m ³	-
67-63-0 Propan-2-ol		
Austria	200ppm;500mg/m ³	800ppm;2000mg/ m ³
Belgium	200ppm;500mg/ m ³	400ppm;1000mg/ m ³ 15 minutes average value
Denmark	200ppm;490mg/ m ³	400ppm;980mg/ m ³
Finland	200ppm;500mg/ m ³	250ppm;620mg/ m ³ 15 minutes average value
France	-	400ppm;980mg/ m ³
Germany (AGS)	200ppm;500mg/ m ³	400ppm;1000mg/ m ³ 15 minutes average value
Germany (DGF)	200ppm;500mg/ m ³	400ppm;1000mg/ m ³ 15 minutes average value
Hungary	500mg/ m ³	2000mg/ m ³
Ireland	200ppm	400ppm
Latvia	350mg/ m ³	600mg/ m ³ 15 minutes average value
Poland	900mg/ m ³	1200mg/ m ³
Romania	81ppm;200mg/ m ³	203ppm;500mg/ m ³ 15 minutes average value
Spain	200ppm;500mg/ m ³	400ppm;1000mg/ m ³
Sweden	150ppm;350mg/ m ³	250ppm;600mg/ m ³ 15 minutes average value
United Kingdom	400ppm;999mg/ m ³	500ppm;1250mg/ m ³
1333-86-4 Carbon black		
Austria	3mg/ m ³	-
Belgium	3.5mg/ m ³	-
Denmark	3.5mg/ m ³	7.0mg/ m ³
Finland	3.5mg/ m ³	7.0mg/ m ³ 15 minutes average value
France	3.5mg/ m ³	-
Ireland	3.5mg/ m ³	7.0mg/ m ³ 15 minutes average period

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Spain	3.5mg/ m³	-
Sweden	3mg/ m³	-
United Kingdom	3.5mg/ m³	7.0mg/ m³
147-14-8 Pigment Blue 15		
Latvia	5.0mg/ m³	-
DNELs:		
DNEL type	DNEL worker value	DNEL consumer value
64-17-5 Ethanol		
Systemic effects		
Long-term, inhalation exposure	950mg/m³	114mg/m³
Long-term, dermal exposure	343mg/kg bw/day	260mg/kg bw/day
Long-term, oral exposure	-	87mg/kg bw/day
Local effects Acute/short term, inhalation exposure	1900mg/m³	950mg/m³
67-63-0 Propan -2 -ol		
Systemic effects		
Long-term, inhalation exposure	-	89mg/m³
Long-term, dermal exposure	-	319mg/kg bw/day
Long-term, oral exposure	-	26mg/kg bw/day
1333-86-4 Carbon black		
Systemic effects Long-term, inhalation exposure	1mg/m³	60µg/m³
Local effects Long-term, inhalation exposure	500µg/m³	1.75mg/m³
147-14-8 Pigment Blue 15		
Systemic effects		
Long-term, inhalation exposure	4mg/m³	-
Long-term, dermal exposure	450mg/kg bw/day	250mg/kg bw/day
Long-term, oral exposure	-	45mg/kg bw/day
PNECs		
PNCes type	Value	
64-17-5 Ethanol		
Freshwater	960µg/L	
Intermittent releases (freshwater)	2.75µg/L	
Marine water	790µg/L	
Sewage treatment plant (STP)	580mg/L	
Sediment (freshwater)	3.6mg/kg sediment dw	

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Sediment (marine water)	2.9 mg/kg sediment dw
67-63-0 Propan-2-ol	
Freshwater	140.9 mg/L
Intermittent releases (freshwater)	140.9 mg/L
Marine water	140.9 mg/L
Sewage treatment plant (STP)	2.251 g/L
Sediment (freshwater)	552mg/kg sediment dw
Sediment (marine water)	552mg/kg sediment dw
1333-86-4 Carbon black	
Freshwater	1-50mg/L
Intermittent releases (freshwater)	10mg/L
Marine water	100µg/L
Intermittent releases (marine water)	1mg/L
147-14-8 Pigment Blue 15	
Sediment (freshwater)	10mg/kg sediment dw
Sediment (marine water)	1mg/kg sediment dw

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 control:

Wash hands before breaks and at the end of work.

See Section 7 for information about design of technical facilities.

Personal protective equipment

Respiration protection: Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

Protection of hands:



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.11mm; break through times up to 480 minutes)

Eye protection:



Safety glasses

Protective goggles with side-shields.

Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Appearance:	
Form:	Liquid
Color:	Blue, Black, Green, Red
Odor:	Odorless
Odour threshold:	Not available
pH-value:	Not available
Change in condition	
Melting point/ Melting range:	Not available
Freezing point:	Not available
Boiling point/ Boiling range:	Not available
Flash point:	<23°C (closed cup)
Flammability (solid, gas):	Not applicable
Decomposition temperature:	Not determined
Self-ignition	Product is not self-igniting
Danger of explosion	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Oxidizing properties:	Not determined
Vapor pressure:	Not determined
Density:	Not determined
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined

Solubility in/ Miscibility with	
Water:	Soluble in water
Partition coefficient (n-octanol/ water):	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Other information	Nata 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 further relevant information available.

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Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials Strong mineral acids, oxidizing agents.

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

Acute toxicity

Acute toxicity: Based on available data, the classification criteria are not met.		
LD/LC50 values that are relevant for classification: No animal test has been done for this product or the components		
64-17-5 ethanol		
Rat	LD50-oral	7060 mg/kg
	LC50-inhalation	20000 ppm/10H
Rabbit	LD50-oral	6300 mg/kg
Guinea pig	LD50-oral	5560 mg/kg
Mouse	LD50-oral	3450 mg/kg
	LC50-inhalation	39000 ppm/10H
67-63-0 Propan-2-ol		
Mouse	LD50-oral	3600 mg/kg
Rabbit	LD50-oral	6410 mg/kg
	LD50-skin	12800 mg/kg
Rat	LD50-oral	5045 mg/kg
	LC50-inhalation	16000 ppm/8H
1333-86-4 Carbon black		
Rabbit	LD50-skin	> 3000 mg/kg
Rat	LD50-oral	>15400 mg/kg
147-14-8 Pigment Blue 15		
Rat	LD50-oral	>15000 mg/kg

Remark: All the above data from literature.

- **Skin corrosion /irritation:** Based on available data, the classification criteria are not met.
- **Serious eyes damage/ irritation:** Causes serious eye irritation.
- **Respiratory or skin sensitization:** 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:** May cause drowsiness or dizziness.
- **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

Toxicity:

Aquatic toxicity: No further relevant information available.

64-17-5 Ethanol

Short-term toxicity to fish	LC50 (4days) 14.2 -15.4 g/L EC50 (4days) 12.7 -12.9 g/L
Long-term toxicity to fish	NOEC (5days) 250-1000mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48h) 10g/L LC50 (48h) 5.012g/L
Long-term toxicity to aquatic invertebrates	NOEC (10days) 2-9.6mg/L LC50 (10days) 1.806g/L LC50 (48h) 9.248g/L
Toxicity to aquatic algae and cyanobacteria	EC50 (4days) 675-22000 mg/L
Toxicity to microorganisms	EC50 (4h) 5.8g/L IC50 (3h) 1g/L

67-63-0 Propan-2-ol

Short-term toxicity to fish	LC50 (4days) 9.64-10g/L
Short-term toxicity to aquatic invertebrates	EC50 (24h) 10g/L LC50 (24h) 10g/L

1333-86-4 Carbon black

Short-term toxicity to aquatic invertebrates	EC50 (24h) 5.6g/L NOEC (24h) 3.2g/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72h) 10g/L NOEC (72h) 10g/L

147-14-8 Pigment Blue 15

Short-term toxicity to fish	LC50 (4days) 1 00-355.6mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48h) 500mg/L
Long-term toxicity to aquatic invertebrates	NOEC (21days) 1mg/L LOEC (21days) 1mg/L EC50 (21days) 1mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72h) 100mg/L
Toxicity to microorganisms	EC50 (3h) 10g/L

1328-53-6 Phthalocyanine Green

Short-term toxicity to fish	LC50 (4days) 752.4mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48h) 500mg/L
Long-term toxicity to aquatic invertebrates	NOEC (21days) 1mg/L LOEC (21days) 1mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72h) 100mg/L
Toxicity to microorganisms	EC50 (30min) 10g/L

Persistence and degradability: Readily biodegradable

64-17-5 Ethanol	BOD ₅ =1.067-1.236g O ₂ /g test material; COD=1.99gO ₂ /g test material; Readily biodegradable
67-63-0 Propan-2-ol	COD= 2.23gO ₂ /g; Readily biodegradable
147-14-8 Pigment Blue 15	Under test conditions no biodegradation observed

Bio-accumulative potential: Low bio-accumulation.

64-17-5 Ethanol	Log Pow=-0.77-0.3 at 24-25°C and pH7-7.4
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67-63-0 Propan-2-ol	Log Pow=0.05 at 25°C
1328-53-6 Phthalocyanine Green	Log Pow= 0.88--0.4 at 23°C

Mobility in soil: High mobility in soil.

Result of PBT and vPvB assessment: No further relevant information available.

Other adverse effects No further relevant information available.

Additional ecological information

General notes: Water hazard class1 (German Regulation) (self-assessment): Slightly hazardous for water. Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

Waste treatment methods


Recommendation:

Must not be disposed of together with household garbage.

Uncleaned packaging:

Recommendation: Dispose of contents/ container in according to the local/ regional/ national/international regulation.

SECTION 14: Transport information

UN-Number	
ADR, RID, AND, IMDG, IATA	UN1993
UN proper shipping name	
ADR, RID, AND, IMDG, IATA	FLAMMABLE LIQUID, N.O.S.
Transport hazard class (es)	
ADR, RID, AND, IMDG, IATA	
	
Class	3 Flammable liquids
Label	3

Packing group	
ADR, RID, AND, IMDG, IATA	II
Environmental hazards	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler)	33
EMS Number:	F-E, S-D
Un "Model Regulation":	UN 1993, Flammable, N.O.S., 3, II

SECTION 15: Regulatory information

Safety, health and environmental regulations/ legislation specific for the substance or mixture
Sara

MAK (German Maximum Workplace Concentration)
64-17-5 Ethanol (5)
1333-86-4 Carbon black (3B)
Directive 2012/18/EU



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Named dangerous substances- ANNEXI: None of the ingredients is listed.
Seveso category: P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower- tier requirements: 5000 ton (net).
Qualifying quantity (tonnes) for the application of upper- tier requirements: 50000 ton (net).
National regulation
Water hazard class: Water hazard class1(German Regulation) (self-assessment): Slightly hazardous for water.
Other regulations, limitations and prohibitive regulations
SVHC Candidate list of REACH Regulation Annex XIV Authorization:
None of the ingredients is listed.
REACH Regulation Annex XVII Restriction: None of the ingredients is listed.
REACH Regulation Annex XIV Authorization List: None of the ingredients is listed.
Chemical safety assessment: A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

Relevant phrases

H225 Highly flammable liquid and vapor

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

The contents and format of this SDS are in accordance with Regulation (EC) No1907/2006, 1272/2008 and Regulation (EU) No 2015/830.

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 a component in another product, this SDS information may not be applicable.

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 Harmonized System of Classification and Labeling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

SVHC: Substance of Very High Concern

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEC: No observed effect concentration

LOEC: Lowest Observed Effect Concentration

EC50: Concentration of maximal effect, 50 percent

IC50: Half maximal inhibitory concentration

Flam.Liq.2: Flammable liquid, hazard category2

SkinIrrit.2: Skin corrosion/ irritation, hazard category2

Eyelrrit.2: Eye damage/ irritation, hazard category2

STOT SE3: Specific target organ toxicity after single exposure, hazard category 3

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