

Safety Data Sheet

Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: November 22, 2022

Version No.: 1.0

Revision: November 22, 2022

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

• **1.1 Product identifier**

• **Trade name:**

Water colour pen (24 Colors)

• **Registration number:**

No available data.

• **UFI number:**

No available data.

• **Other means of identification:**

No available data.

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

• **Application of the substance/ mixture:**

Consumer uses, for drawing.

• **Uses advised against:**

No available data.

• **Reason why uses advised against:**

No available data.

• **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

Ninghai Shun Long Stationery Co., Ltd.

No.2, Jinshan 9 Road, Xinxing development zone, Taoyuan Str., Ninghai county.

Post code: 315606

Tel: + 086-574 65330105

Fax: + 086-574 65330105

Email: eastxia888666@126.com

National contact: Xiujuan Li

• **Only Representative/other EU contact point:**

No information available.

• **Further information obtainable from:**

Ninghai Shun Long Stationery Co., Ltd

• **1.4 Emergency telephone number**

Tel: +086-13486456216

(Only available during the following office hours 8:30-17:00, Beijing time, for Chinese service only)

SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• **2.1.1 Classification according to regulation (EC) 1272/2008:**

The product is not classified according to CLP Regulation.

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Not applicable	Not applicable

• **2.2 Label elements**

• **Labeling according to Regulation (EC) No 1272/2008:**

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The product is not labelled according to CLP Regulation.

• Hazard pictograms:

Not applicable

• Signal word:

Not applicable

• Hazard-determining components of labelling:

Not applicable

• Hazard statements:

Not applicable

• Precautionary statement:

Not applicable

• Supplemental label elements:

Not applicable

• 2.3 Other hazardsNone of the ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.None of the ingredients ($\geq 0.1\%$) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.**SECTION 3: Composition/information on ingredients****• 3.1 Substance**

Not applicable

• 3.2 Mixtures**• Description of the mixture:**

Water colour pen (24 Colors).

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Red						
Water	7732-18-5	-	231-791-2	73.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Acid Red 1	3734-67-6	-	223-098-9	1.5	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Blue						
Water	7732-18-5	-	231-791-2	73.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Violet 23	215247-95-3	-	228-767-9	0.75	None	-
Pigment Green 7	1328-53-6	-	215-524-7	0.75	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Green						
Water	7732-18-5	-	231-791-2	73.35	None	-

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Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Violet 23	215247-95-3	-	228-767-9	0.75	None	-
Pigment Yellow 97	12225-18-2	-	-	0.75	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Violet						
Water	7732-18-5	-	231-791-2	73.85	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Violet 23	215247-95-3	-	228-767-9	1	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Dark Brown						
Water	7732-18-5	-	231-791-2	72.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Copper chromite black spinel	68186-91-4	-	269-053-7	1.5	None	-
Pigment Yellow 97	12225-18-2	-	-	1	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Black						
Water	7732-18-5	-	231-791-2	72.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Copper chromite black spinel	68186-91-4	-	269-053-7	2.5	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Pink						
Water	7732-18-5	-	231-791-2	74.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Anthocyanins, grape	11029-12-2	-	-	0.5	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Sky Blue						
Water	7732-18-5	-	231-791-2	72.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Acid Blue 9	2650-18-2	-	220-168-0	2.5	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319	-

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Water	7732-18-5	-	231-791-2	72.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Acid Red 1	3734-67-6	-	223-098-9	1.5	None	-
Pigment Yellow 97	12225-18-2	-	-	1	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Grey						
Water	7732-18-5	-	231-791-2	72.85	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Copper chromite black spinel	68186-91-4	-	269-053-7	1.2	None	-
Pigment Violet 23	215247-95-3	-	228-767-9	0.8	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Purple Red						
Water	7732-18-5	-	231-791-2	73.85	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Anthocyanins, grape	11029-12-2	-	-	0.8	None	-
Pigment Violet 23	215247-95-3	-	228-767-9	0.2	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Light Purple						
Water	7732-18-5	-	231-791-2	74.55	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Violet 23	215247-95-3	-	228-767-9	0.3	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Deep Blue						
Water	7732-18-5	-	231-791-2	72.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Violet 23	215247-95-3	-	228-767-9	2	None	-
Copper chromite black spinel	68186-91-4	-	269-053-7	0.5	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Grass Green						
Water	7732-18-5	-	231-791-2	71.85	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-

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Pigment Yellow 97	12225-18-2	-	-	1.5	None	-
Pigment Green 7	1328-53-6	-	215-524-7	1	None	-
Copper chromite black spinel	68186-91-4	-	269-053-7	0.5	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Lake Blue						
Water	7732-18-5	-	231-791-2	74.55	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Green 7	1328-53-6	-	215-524-7	0.2	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Pigment Violet 23	215247-95-3	-	228-767-9	0.1	None	-
Yellow						
Water	7732-18-5	-	231-791-2	72.85	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Yellow 97	12225-18-2	-	-	2	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Light Orange						
Water	7732-18-5	-	231-791-2	73.35	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Orange 13	3520-72-7	-	222-530-3	1.5	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Khaki						
Water	7732-18-5	-	231-791-2	73.25	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Yellow 97	12225-18-2	-	-	0.83	None	-
Acid Red 1	3734-67-6	-	223-098-9	0.47	None	-
Copper chromite black spinel	68186-91-4	-	269-053-7	0.3	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
Brown						
Water	7732-18-5	-	231-791-2	71.85	None	-
Glycerin	56-81-5	-	200-289-5	25	None	-
Pigment Orange	3520-72-7	-	222-530-3	2	None	-

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13						
Copper chromite black spinel	68186-91-4	-	269-053-7	1	None	-
Potassium sorbate	590-00-1	-	-	0.15	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-

Additional information:

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures**• 4.1 Description of first aid measures****General advice:**

No special immediate medical required.

After inhalation:

Supply with fresh air.

Get medical attention if you feel unwell.

After skin contact:

Wash with water.

If there are signs of irritation or other symptoms seek medical attention.

After eye contact:

Rinse cautiously with water.

If eye irritation occurs: Get medical advice/attention.

After swallowing:

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

• 4.2 Most important symptoms and effects, both acute and delayed:

No known symptoms or effects.

• 4.3 Indication of any immediate medical attention and special treatment needed:

No special immediate medical attention or special treatment needed.

SECTION 5: Fire-fighting measures**• 5.1 Extinguishing media****• Suitable extinguishing agents:**Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.**• Unsuitable extinguishing media:**

Water with full jet.

• 5.2 Special hazards arising from the substance or mixture:

May produce irritant vapor in air under fire.

• 5.3 Advice for firefighters**Protective equipment:**

Wear self-contained breathing apparatus for firefighting.

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SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

• 6.1.1 For non-emergency personnel

Protective equipment:

Eye protection/ respiration protection.

Emergency procedures:

Ensure adequate ventilation.

Avoid breathing vapour.

Avoid contact with eyes.

• 6.1.2 For emergency responders

Personal protective equipment:

Eye protection/ respiration protection.

• 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or 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.

• 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:

Avoid contact with eyes.

• Information about fire and explosion protection:

Normal measures for preventive fire protection.

• 7.2 Conditions for safe storage, including any non-compatibility

• Requirements to be met by storerooms and receptacles:

Store in a cool and well-ventilated place.

• Information about storage in one common storage facility:

No further requirements.

• Further information about storage conditions:

No further requirements.

• Storage class:

12.

• 7.3 Specific end use(s):

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See section 1.2.

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
56-81-5 Glycerin		
Belgium	10 mg/m ³	-
Finland	20 mg/m ³	-
France	10 mg/m ³	-
Germany (DFG)	200 mg/m ³ Inhalable fraction	400 mg/m ³ Inhalable fraction; 15 minutes average value
Ireland	10 mg/m ³	-
Poland	10 mg/m ³	-
Spain	10 mg/m ³	-
United Kingdom	10 mg/m ³	-

• DNELs:

DNEL type		DNEL worker value	DNEL consumer value
56-81-5 Glycerin			
Local Effects	Long-term, inhalation exposure	56 mg/m ³	33 mg/m ³
	Long-term, oral exposure	-	229 mg/kg bw/day
590-00-1 Potassium sorbate			
Systemic effects	Long-term, inhalation exposure	17.63 mg/m ³	52.17 mg/m ³
	Long-term, dermal exposure	40 mg/kg	20 mg/kg bw/day
	Long-term, oral	-	2 mg/kg bw/day

• PNECs:

PNEC type	Value
56-81-5 Glycerin	
Freshwater	885 µg/L
Intermittent releases (freshwater)	8.85 mg/L
Marine water	88.5 µg/L
Sewage treatment plant (STP)	1 g/L
Sediment (freshwater)	3.3 mg/kg sediment dw
Sediment (marine water)	330 µg/kg sediment dw
590-00-1 Potassium sorbate	
Freshwater	1 mg/L
Intermittent releases (freshwater)	4.8 mg/L
Marine water	100 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	3.6 mg/kg sediment dw
Sediment (marine water)	360 µg/kg sediment dw

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The lists valid during the marking were used as basis.

• 8.2 Exposure controls

• **Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.**

• Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and at the end of work.

See section 7 for information about design of technical facilities.

• Personal protective equipment**• Eye and face protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Safety glasses with side-shields (frame goggles) (e.g. EN 166)

• Skin protection**• Hand protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



Protective gloves

Latex gloves, butyl rubber gloves (thickness > 0.11 mm, break through time approx. 480 min).

• Other skin protection:

Not required under normal conditions of use.

For industrial applications, following protection required:

Gauntlets, boots, bodysuit are recommended.

• Respiration protection:

Not required under normal conditions of use.

For industrial applications, following protection required:

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

• Thermal hazards:

Not required under normal conditions of use.

For industrial applications, following protection required:

The gauntlets, boots, bodysuit and other personal protective equipment must be flame-retardant and no heat-conducting.

• 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**• Physical state**

Liquid

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• Color	Various
• Odor & Odor threshold	Odorless
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	100°C (Water)
• Flammability	Not flammable liquid
• Lower and upper explosion limit	Not determined
• Flash point	191°C (Glycerin)
• Auto-ignition temperature	400°C (Glycerin)
• Decomposition temperature	Not determined
• pH	4-10 (20°C, 100g/l)
• Kinematic viscosity (mm ² /s)	Not determined
• Solubility	Soluble in water
• Partition coefficient n-octanol/water (log value)	Not determined
• Vapor pressure	Not determined
• Density and/or relative density	Not determined
• Relative vapor density	Not determined
• Particle characteristics	Not determined
• 9.2 Other information	
• 9.2.1 Information with regard to physical hazard classes:	
• Explosives	Not applicable
• Flammable gases	Not applicable
• Aerosols	Not applicable
• Oxidising gases	Not applicable
• Gases under pressure	Not applicable
• Flammable liquids	Not applicable
• Flammable solids	Not applicable
• Self-reactive substances and mixtures	Not applicable
• Pyrophoric liquids	Not applicable
• Pyrophoric solids	Not applicable
• Self-heating substances and mixtures	Not applicable
• Substances and mixtures, which emit flammable gases in contact with water	Not applicable
• Oxidizing liquids	Not applicable
• Oxidizing solids	Not applicable
• Organic peroxides	Not applicable
• Corrosive to metals	Not applicable
• Desensitised explosives	Not applicable
• 9.2.2 Other safety characteristics	
• Mechanical sensitivity	Not applicable
• Self-accelerating polymerisation temperature	Not applicable
• Formation of explosible dust/air mixtures	Not applicable
• Acid/alkaline reserve	Not applicable
• Evaporation rate	Not determined

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• Miscibility	Not determined
• Conductivity	Not applicable
• Corrosiveness	Not applicable
• Gas group	Not applicable
• Redox potential	Not applicable
• Radical formation potential	Not applicable
• Photocatalytic properties	Not applicable
• Other physical and chemical parameters	Not determined

SECTION 10: Stability and reactivity

• 10.1 Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

• 10.2 Chemical stability:

Under storage at normal ambient temperatures, the product is stable.

• 10.3 Possibility of hazardous reactions:

No known hazardous reaction.

• 10.4 Conditions to avoid:

High temperatures.

• 10.5 Incompatible materials:

Strong acids, strong oxidizing agents.

• 10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

• 11.1 Information on toxicological effects

• Acute toxicity:

Based on available data, the classification criteria are not met.

LD50/LC50 values relevant for classification:

56-81-5 Glycerol

Rat	LD50-oral	12600mg/kg
Mouse	LD50-oral	4090mg/kg
Rabbit	LD50-oral	27000mg/kg
	LD50-skin	>10000mg/kg

590-00-1 Potassium sorbate

Rat	LD50-oral	3800mg/kg
Mouse	LD50-oral	4340mg/kg

Remark: All the above data are from literature.

• Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

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Trade Name: Water colour pen (24 Colors)**• Serious eyes damage/ irritation:**

Based on available data, the classification criteria are not met.

• 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:

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.

• 11.2 Information on other hazards**• 11.2.1 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

• 11.2.2 Other information:

No known other relevant information on adverse health effects.

SECTION 12: Ecological information**• 12.1 Toxicity:****LC50/EC50/NOEC values relevant for classification:**

56-81-5 Glycerin

Short-term toxicity to fish	LC50 (4 days) 54 g/L
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Short-term toxicity to aquatic invertebrates	EC50 (24 h) 10 g/L
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590-00-1 Potassium sorbate

Short-term toxicity to fish	LC50 (4 days) 500 mg/L
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Short-term toxicity to aquatic invertebrates	EC50 (48 h) 982 mg/L
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Long-term toxicity to aquatic invertebrates	NOEC (21 days) 50 mg/L
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Toxicity to microorganisms	EC50 (3 h) 100 mg/L
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• 12.2 Persistence and degradability:

56-81-5	Glycerin	Readily biodegradable in water
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590-00-1	Potassium sorbate	Readily biodegradable in water
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Trade Name: Water colour pen (24 Colors)**• 12.3 Bio-accumulative potential:**

56-81-5	Glycerin	Log Pow= -1.75
590-00-1	Potassium sorbate	Log Pow = -1.72 - 1.32

• 12.4 Mobility in soil:

590-00-1	Potassium sorbate	Henrys law constant = 0 Pa m ³ /mol
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• 12.5 Results of PBT and vPvB assessment:

This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

• 12.6 Endocrine disrupting properties:

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

• 12.7 Other adverse effects:

No known other adverse effects.

• 12.8 Additional ecological information**• General notes:**

WGK1 (German Regulation) (self-assessment): Low hazard to waters.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

• 13.1 Waste treatment methods**• Recommendation:**

Small quantities can be disposed together with household garbage.

Large quantities disposed must be in according to the local regulation.

• 13.2 Un-cleaned packaging**• Recommendation:**

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

SECTION 14: Transport information

• ADR/RID (2021 Edition)	This product is not subject to ADR/RID.
• IATA-DGR (63th)	This product is not subject to IATA-DGR.
• IMO/IMDG (40-20)	This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**• MAK (German Maximum Workplace Concentration):**

None of the ingredients is listed.

• Directive 2012/18/EU**• Named dangerous substances-ANNEX I:**

None of the ingredients is listed.

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Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: November 22, 2022

Version No.: 1.0

Revision: November 22, 2022

Trade Name: Water colour pen (24 Colors)**• Seveso category:**

Not applicable

• Qualifying quantity (tonnes) for the application of lower-tier requirements:

Not applicable

• Qualifying quantity (tonnes) for the application of upper-tier requirements:

Not applicable

• National regulations.**• Water hazard class:**

WGK1 (German Regulation) (self-assessment): Low hazard to waters.

• 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.

• 15.2 Chemical safety assessment:

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information**• 16.1 Indication of changes:**

None.

16.2 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.

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

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Skin Irrit.2: Skin corrosion/irritation, hazard category 2

Eye Irrit.2: Eye damage/irritation, hazard category 2

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

• 16.3 Key literature references and sources for data:<https://echa.europa.eu/>

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<https://chem.nlm.nih.gov/>
<https://www.osha.gov/>
<http://www.unece.org/>
<http://www.imo.org/>
<https://www.dguv.de/>
<https://epa.govt.nz/>
<http://www.ilo.org/>
<https://www.phmsa.dot.gov/>

• **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:**

See section 2.1 (classification).

• **16.5 Relevant H- and EUH-phrases (number and full text):**

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

• **16.6 Training advice:**

Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

• **16.7 Further information:**

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

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End of safety data sheet