

Safety Data Sheet

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

Printing Date: December 7, 2022

Version No.: 1.0

EFHZ22113994-CG-01

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

• 1.1 Product identifier

• Trade name:

Fluorescent ink

• Registration number:

No available data.

• UFI number:

No available data.

• Item No. : FK007 + FK008 + FK009 + FK010

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

• Application of the substance/ mixture:

Consumer uses, 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:

CiXi Chncolor Nano Technology Co., Ltd.

No.123 Riverside Road Henghe Town Cixi City Zhejiang Province China.

Tel: +086-13586543220

Vendor name : BUKI France

38 avenue François Mitterrand 72000 Le Mans

• Only Representative/other EU contact point:

No information available.

• Further information obtainable from:

CiXi Chncolor Nano Technology Co., Ltd.

• 1.4 Emergency telephone number

Tel: +086-13586543220 (24 hours service)

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:

The product is not labelled according to CLP Regulation.

• Hazard pictograms:

Not applicable

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Trade Name: Fluorescent ink

• 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 hazards

None 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:

Fluorescent ink.

Ingredients:						
Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
PIGMENT BASED: RED						
Styrene-acrylonitrile copolymer	9003-54-7	-	-	40	None	-
Water	7732-18-5	-	231-791-2	35.99	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Acid Red 52	3520-42-1	-	222-529-8	1	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Solvent green 7	6358-69-6	-	228-783-6	0.2	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: $C \geq 10\%$ Eye Irrit. 2, H319: $5\% \leq C < 10\%$ Skin Irrit. 2, H315: $C \geq 20\%$ M=10

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PIGMENT BASED: ORANGE						
Styrene-acrylonitrile copolymer	9003-54-7	-	-	40	None	-
Water	7732-18-5	-	231-791-2	35.69	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Solvent green 7	6358-69-6	-	228-783-6	1	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Acid Red 52	3520-42-1	-	222-529-8	0.5	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10% Skin Irrit. 2, H315: C $\geq$ 20% M=10
PIGMENT BASED: PINK						
Styrene-acrylonitrile copolymer	9003-54-7	-	-	40	None	-
Water	7732-18-5	-	231-791-2	35.69	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Acid Red 52	3520-42-1	-	222-529-8	1.5	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10% Skin Irrit. 2, H315: C $\geq$ 20% M=10
PIGMENT BASED: YELLOW						
Styrene-acrylonitrile copolymer	9003-54-7	-	-	40	None	-
Water	7732-18-5	-	231-791-2	35.69	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-

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Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Solvent green 7	6358-69-6	-	228-783-6	1.5	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C _≥ 10% Eye Irrit. 2, H319: 5%≤C<10% Skin Irrit. 2, H315: C _≥ 20% M=10
PIGMENT BASED: GREEN						
Styrene-acrylonitrile copolymer	9003-54-7	-	-	40	None	-
Water	7732-18-5	-	231-791-2	35.39	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Solvent green 7	6358-69-6	-	228-783-6	1.5	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Pigment Blue 15	147-14-8	-	205-685-1	0.3	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C _≥ 10% Eye Irrit. 2, H319: 5%≤C<10% Skin Irrit. 2, H315: C _≥ 20% M=10
PIGMENT BASED: BLUE						
Styrene-acrylonitrile copolymer	9003-54-7	-	-	40	None	-
Water	7732-18-5	-	231-791-2	35.69	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Pigment Blue 15	147-14-8	-	205-685-1	1.5	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312	ATE (oral)=180 mg/kg

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					Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10% Skin Irrit. 2, H315: C $\geq$ 20% M=10
PIGMENT BASED: VIOLET						
Styrene-acrylonitrile copolymer	9003-54-7	-	-	40	None	-
Water	7732-18-5	-	231-791-2	35.39	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Acid Red 52	3520-42-1	-	222-529-8	0.9	None	-
Pigment Blue 15	147-14-8	-	205-685-1	0.9	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10% Skin Irrit. 2, H315: C $\geq$ 20% M=10
DYE BASED: YELLOW						
Water	7732-18-5	-	231-791-2	75.49	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Solvent green 7	6358-69-6	-	228-783-6	1.5	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Triethanolamine	102-71-6	-	203-049-8	0.2	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2,	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10%

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					H411	Skin Irrit. 2, H315: C $\geq$ 20% M=10
DYE BASED: GREEN						
Water	7732-18-5	-	231-791-2	75.19	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Solvent green 7	6358-69-6	-	228-783-6	1.5	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Acid Blue 9	3844-45-9	-	242-159-0	0.3	None	-
Triethanolamine	102-71-6	-	203-049-8	0.2	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10% Skin Irrit. 2, H315: C $\geq$ 20% M=10
DYE BASED:BLUE						
Water	7732-18-5	-	231-791-2	75.69	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Acid Blue 9	3844-45-9	-	242-159-0	1.5	None	-
Tween20	9005-64-5	-	500-018-3	0.8	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10% Skin Irrit. 2, H315: C $\geq$ 20% M=10
DYE BASED: VIOLET						
Water	7732-18-5	-	231-791-2	75.99	None	-
Glycerin	56-81-5	-	200-289-5	20	None	-
Propane-1,2-diol	57-55-6	-	200-338-0	2	None	-
Acid Red 52	3520-42-1	-	222-529-8	0.9	None	-

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Tween20	9005-64-5	-	500-018-3	0.8	None	-
Acid Blue 9	3844-45-9	-	242-159-0	0.3	None	-
Bronopol	52-51-7	603-085-00-8	200-143-0	0.01	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=180 mg/kg ATE (dermal)=1600 mg/kg Eye Dam. 1, H318: C $\geq$ 10% Eye Irrit. 2, H319: 5% $\leq$ C<10% Skin Irrit. 2, H315: C $\geq$ 20% M=10

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:

Get medical attention if you feel unwell.

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, acute or delayed.

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.

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Trade Name: Fluorescent ink**• Unsuitable extinguishing media:***Water with full jet.***• 5.2 Special hazards arising from the substance or mixture:***No special hazards arising from the mixture.***• 5.3 Advice for firefighters****Protective equipment:***Wear self-contained breathing apparatus for firefighting.***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 and respiration protection.***Emergency procedures:***Ensure adequate ventilation.**Avoid breathe vapor.**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:**

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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):**

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	-
57-55-6 Propane-1,2-diol		
Ireland	150 ppm; 470 mg/m ³	-
United Kingdom	150 ppm; 474 mg/m ³	-
102-71-6 Triethanolamine		
Austria	0.8ppm; 5 mg/m ³ inhalable aerosol	1.6ppm; 10 mg/m ³ inhalable aerosol
Belgium	5 mg/m ³	-
Denmark	0.5ppm; 3.1 mg/m ³	1ppm; 6.2 mg/m ³
Finland	5 mg/m ³	5 mg/m ³
Germany (DFG)	5 mg/m ³ Inhalable fraction	10mg/m ³ Inhalable fraction, 15 minutes average value
Ireland	5 mg/m ³	-
Spain	5 mg/m ³	-
Sweden	0.8ppm; 5 mg/m ³	1.6ppm; 10 mg/m ³ 15 minutes average value

• **DNELs:**

DNEL type	DNEL worker value	DNEL consumer value
56-81-5 Glycerin		
Local Effects	Long-term, inhalation exposure	56 mg/m ³
	Long-term, oral exposure	-
57-55-6 Propane-1,2-diol		

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Systemic effects	Long-term, inhalation exposure	168 mg/m ³	50 mg/m ³
Local effects	Long-term, inhalation exposure	10 mg/m ³	10 mg/m ³
52-51-7 Bronopol			
Systemic effects	Long-term, inhalation exposure	4.1 mg/m ³	1.2 mg/m ³
	Acute /short term, inhalation exposure	12.3 mg/m ³	-
	Long-term, dermal exposure	2.3 mg/kg bw/day	1.4 mg/kg bw/day
	Acute /short term, dermal exposure	7 mg/kg bw/day	-
	Long-term, oral exposure	-	350 µg/kg bw/day
	Acute /short term, oral exposure	-	1.1 mg/kg bw/day
Local Effects	Long-term, inhalation exposure	4.2 mg/m ³	1.3 mg/m ³
	Acute /short term, inhalation exposure	4.2 mg/m ³	1.3 mg/m ³
	Long-term, dermal exposure	13 µg/cm ²	8 µg/cm ²
	Acute /short term, dermal exposure	13 µg/cm ²	8 µg/cm ²
102-71-6 Triethanolamine			
Systemic effects	Long-term, inhalation exposure	5 mg/m ³	1.25 mg/m ³
	Long-term, dermal exposure	6.3 mg/kg bw/day	3.1 mg/kg bw/day
	Long-term, oral exposure	-	13 mg/kg bw/day
Local effects	Long-term, inhalation exposure	5 mg/m ³	1.25 mg/m ³

• 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
57-55-6 Propane-1,2-diol	
Freshwater	260 mg/L
Intermittent releases (freshwater)	183 mg/L
Marine water	26 mg/L
Sewage treatment plant (STP)	20 g/L
Sediment (freshwater)	572 mg/kg sediment dw
Sediment (marine water)	57.2 mg/kg sediment dw
Soil	50 mg/kg soil dw
52-51-7 Bronopol	
Freshwater	10 µg/L
Intermittent releases (freshwater)	2.5 µg/L
Marine water	800 ng/L
Sewage treatment plant (STP)	430 µg/L
Sediment (freshwater)	41 µg/kg sediment dw
Sediment (marine water)	3.28 µg/kg sediment dw

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Soil	500 µg/kg soil dw
102-71-6 Triethanolamine	
Freshwater	320 µg/L
Intermittent releases (freshwater)	5.12 mg/L
Marine water	32 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	1.7 mg/kg sediment dw
Sediment (marine water)	170 µg/kg sediment dw
Soil	151 µg/kg soil dw

• Additional information:

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

Protective goggles with side-shields.

• Skin protection

• Hand protection:

Not required under normal conditions of use.

For industrial applications, following protection required:



Protective gloves

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

• 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.

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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
• 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	290°C (Glycerin)
• pH	4-8 (20°C, 10g/100ml)
• 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

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• 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
• 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 temperature.

• 10.5 Incompatible materials:

Strong oxidizing agent and acids.

• 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 Glycerin

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Guinea pig	LD50-oral	7750mg/kg
Rat	LD50-oral	12600mg/kg
Mouse	LD50-oral	4090mg/kg
Rabbit	LD50-oral	27000mg/kg
	LD50-skin	> 10000mg/kg
52-51-7 Bronopol		
Mouse	LD50-oral	270mg/kg
	LD50-skin	4750mg/kg
Rat	LC50-inhalation	> 5000mg/m ³ /6H
	LD50-oral	180mg/kg
	LD50-skin	1600mg/kg
Remark: All the above data are from literature.		

• Skin corrosion/irritation:

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

• 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

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Trade Name: Fluorescent ink

• 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

Short-term toxicity to aquatic invertebrates

EC50 (24 h) 10 g/L

52-51-7 Bronopol

Short-term toxicity to fish

LC50 (3.2 months) 35.7 mg/L

NOEC (4 days) 20 mg/L

Long-term toxicity to fish

NOEC (49 days) 21.5 mg/L

LC50 (49 days) 39.1 mg/L

Short-term toxicity to aquatic invertebrates

EC50 (48 h) 1.4 mg/L

Long-term toxicity to aquatic invertebrates

NOEC (21 days) 270 µg/L

EC50 (21 days) 880 µg/L

Toxicity to aquatic algae and cyanobacteria

EC50 (72 h) 250 - 370 µg/L

NOEC (72 h) 80 - 100 µg/L

• 12.2 Persistence and degradability:

56-81-5

Glycerin

Readily biodegradable in water

52-51-7

Bronopol

Readily Biodegradable in water

• 12.3 Bio-accumulative potential:

56-81-5

Glycerin

Log Pow= -1.75

52-51-7

Bronopol

Log Pow = -0.34 - 0.22

• 12.4 Mobility in soil:

52-51-7

Bronopol

Koc=5

• 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.

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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.

- **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.

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Trade Name: Fluorescent ink**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.

LATA: 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

Acute Tox. 3: Acute toxicity, hazard category 3

Acute Tox. 4: Acute toxicity, hazard category 4

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

Skin Sens. 1: Skin sensitization, hazard category 1

Eye Dam. 1: Eye damage/irritation, hazard category 1

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

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

Aquatic Acute 1: Short-term (acute) aquatic hazard, hazard category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, hazard category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, hazard category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, hazard category 3

• 16.3 Key literature references and sources for data:

<https://echa.europa.eu/>

<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):

H301 Toxic if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

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H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

H411 Toxic to aquatic life with long lasting effects

• 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

The test item is subcontracted to other lab.

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