

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

- **1.1 Product identifier**
 - Trade name: *COLOR BRUSH PENS*
 - Registration number: *Data not available*
 - Other means of identification: *Data not available*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against on**
 - Application of the substance/ mixture: *Drawing.*
 - Uses advised against: *Data not available*
- **1.3 Details of the supplier of the safety data sheet**
 - Manufacturer/Supplier:
 - MCC Brands, LLC.*
 - 14 Manhattanville Rd. Building 4, Suite 206, Purchase, NY 10577*
 - Tel: +(914)437-5300 x 104*
 - Fax: + (914)437-5821*
 - Email: gsentner@kingartco.com Contact: Grant Sentner*
 - Only Representative/other EU contact point: *Information not available*
 - Further information obtainable from: *Eurofins Product Testing Service (Shanghai) Co., Ltd. Hangzhou Branch.*
- **1.4 Emergency telephone number**
 - General in EU
 - Tel: 112 (Available 24 hours a day)*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - Classification according to regulation (EC) 1272/2008: *The product is not classified according to CLP Regulation.*
 - Classification system:
 - The classification is according to the latest edition of Regulation 1272/2008, and extended by company and literature data.*
- **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*
 - Signal word: *Not applicable*
 - Hazard-determining components of labelling: *Not applicable*
 - Hazard statements: *Not applicable*
 - Precautionary statement: *Not applicable*
- **2.3 Other hazards**
 - Results of PBT and vPvB assessment
 - PBT: Not applicable*

SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterization:** *Mixture*

Description:

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

Substance	CAS No.	Index No.	EC No.	Conc. w/w	CLP Classification	SCL/M-factor
Fluorescent yellow						
Water	7732-18-5	-	231-791-2	86.4%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Solvent Green 7	6358-69-6	-	228-783-6	1.6%	None	-
Fluorescent orange						
Water	7732-18-5	-	231-791-2	86.6%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.4%	None	-
Fluorescent green						
Water	7732-18-5	-	231-791-2	86%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Solvent Green 7	6358-69-6	-	228-783-6	1.5%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.5%	None	-
Light pink						
Water	7732-18-5	-	231-791-2	87%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.5%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.5%	None	-
Pink						
Water	7732-18-5	-	231-791-2	86.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	1%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.5%	None	-
Red						
Water	7732-18-5	-	231-791-2	83.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	4%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.5%	None	-
Light blue 3#						
Water	7732-18-5	-	231-791-2	87.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.5%	None	-
Blue						
Water	7732-18-5	-	231-791-2	85.8%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1.2%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	1%	None	-
Green						
Water	7732-18-5	-	231-791-2	85.6%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1.4%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-

Purple						
Water	7732-18-5	-	231-791-2	86.3%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1		222-529-8	1%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.4%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.3%	None	-
Reddish brown						
Water	7732-18-5	-	231-791-2	86%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	1%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.5%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.5%	None	-
Black						
Water	7732-18-5	-	231-791-2	82%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	3.5%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1.5%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
Yellow						
Water	7732-18-5	-	231-791-2	87%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
Orange						
Water	7732-18-5	-	231-791-2	86.6%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.4%	None	
Vermeil						
Water	7732-18-5	-	231-791-2	86%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	1.2%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.8%	None	-
Plum						
Water	7732-18-5	-	231-791-2	87.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.5%	None	-
Dark blue						
Water	7732-18-5	-	231-791-2	85.8%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1		222-529-8	1.2%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1%	None	-
Blackish green						
Water	7732-18-5	-	231-791-2	86.2%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.4%	None	-

C.I. Acid Red 18	2611-82-7	-	220-036-2	0.4%	None	-
Grass green						
Water	7732-18-5	-	231-791-2	86.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.5%	None	-
Light grey						
Water	7732-18-5	-	231-791-2	87.76%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.1%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.02%	None	-
Grey						
Water	7732-18-5	-	231-791-2	86.95%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.6%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.3%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.15%	None	-
Brown						
Water	7732-18-5	-	231-791-2	84.7%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	2%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.3%	None	-
Light brown						
Water	7732-18-5	-	231-791-2	86.3%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.4%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.3%	None	-
Light blue						
Water	7732-18-5	-	231-791-2	86.8%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.2%	None	-
Peacock blue						
Water	7732-18-5	-	231-791-2	86.2%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.8%	None	-
Light orange						
Water	7732-18-5	-	231-791-2	86.9%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1.02%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.08%	None	-

Dark brown

Item Numbers: 87319-1249, 87319-1489

Water	7732-18-5	-	231-791-2	83%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.8%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1.2%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	3%	None	-
Turquoise						
Water	7732-18-5	-	231-791-2	84.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	2.6%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.5%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.4%	None	-
Marroon						
Water	7732-18-5	-	231-791-2	83%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	4%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	1%	None	-
Peach						
Water	7732-18-5	-	231-791-2	86%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	1.2%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.8%	None	-
Light brown I#						
Water	7732-18-5	-	231-791-2	86.8%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.8%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.2%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.2%	None	-
Blood blue						
Water	7732-18-5	-	231-791-2	86.7%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.8%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.5%	None	-
Deep dark green						
Water	7732-18-5	-	231-791-2	83.2%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	3%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1.8%	None	-
Light blue 4#						
Water	7732-18-5	-	231-791-2	87.83%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.15%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.02%	None	-
Rose red						
Water	7732-18-5	-	231-791-2	85.6%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	2%	None	-

C.I. Acid Red 18	2611-82-7	-	220-036-2	0.4%	None	-
Dark grey						
Water	7732-18-5	-	231-791-2	84.85%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	1.8%	None	-
Brilliant blue	3844-45-9	-	223-339-8	1.1%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.25%	None	-
Silver						
Water	7732-18-5	-	231-791-2	86.05%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.77%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.75%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.43%	None	-
Baby pink						
Water	7732-18-5	-	231-791-2	87.2%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.5%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.3%	None	-
Beige brown						
Water	7732-18-5	-	231-791-2	87.15%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.5%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.3%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.05%	None	-
Golden						
Water	7732-18-5	-	231-791-2	87.18%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.6%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.15%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.07%	None	-
Light purple						
Water	7732-18-5	-	231-791-2	87%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 52	3520-42-1	-	222-529-8	0.9%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.1%	None	-
Skin						
Water	7732-18-5	-	231-791-2	87.65%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.25%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.1%	None	-
Carmine						
Water	7732-18-5	-	231-791-2	82.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	5%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.5%	None	-
Light yellow						

Water	7732-18-5	-	231-791-2	86.5%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1.5%	None	-
Orange yellow						
Water	7732-18-5	-	231-791-2	87%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.8%	None	-
C.I. Acid Red 18	2611-82-7	-	220-036-2	0.2%	None	-
Light turquoise						
Water	7732-18-5	-	231-791-2	86.9%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.8%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.3%	None	-
Army green						
Water	7732-18-5	-	231-791-2	86.3%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	1.2%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.5%	None	-
Yellow green						
Water	7732-18-5	-	231-791-2	87.84%	None	-
Glycerin	56-81-5	-	200-289-5	12%	None	-
C.I. Food Yellow 4	1934-21-0	-	217-699-5	0.15%	None	-
Brilliant blue	3844-45-9	-	223-339-8	0.01%	None	-

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: No special medical attention required normally

After inhalation: Supply with fresh air. Consult doctor if you feel unwell.

After skin contact: No special measure required normally. If skin irritation or allergy occurs consult doctor.

After eye contact: Rinse eyes with water. Consult doctor if you feel unwell.

After swallowing: Wash mouth. Get medical attention 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

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use CO₂, powder, water spray or alcohol resistant foam to extinguish.

Unsuitable extinguishing media: No special unsuitable extinguishing media.

5.2 Special hazards arising from the substance or mixture: No special hazardous arising from the mixture.

5.3 Advice for firefighters

Protective equipment: Wear an approved positive pressure self-contained breathing apparatus (Comply with EN 133).

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Cut off leakage source and collect spillage timely; Ensure adequate ventilation; Prevent contact with eyes.

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); Ensure good ventilation; Dispose contaminated material as waste according to item 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

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-ventilation location.

Information about storage in one common storage facility: Keep away from ignition source and heat surface.

Further information about storage conditions: Store locked up.

7.3 Specific end use(s): Drawing.

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

DNELs:

DNEL type	DNEL worker value	DNEL consumer value
56-81-5 Glycerin		
Systemic Effects	Long-term, oral exposure	-
Local effects	Long-term, inhalation exposure	56 mg/m ³
		229 mg/kg bw/day
		33 mg/m ³

2611-82-7 C.I. Acid Red 18			
Systemic effects	Long-term, inhalation exposure	24.7 mg/m ³	3.7 mg/m ³
	Long-term, dermal exposure	7 mg/kg bw/day	2.5 mg/kg bw/day
	Long-term, oral exposure	-	2.5 mg/kg bw/day
1934-21-0 C.I. Food Yellow 4			
Systemic effects	Long-term, inhalation exposure	372.52 mg/m ³	91.86 mg/m ³
	Long-term, dermal exposure	52.82 mg/kg	26.41 mg/kg
	Long-term, oral exposure	-	26.41 mg/kg

• **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
2611-82-7 C.I. Acid Red 18	
Freshwater	100 µg/L
Intermittent releases (freshwater)	1 mg/L
Marine water	10 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	392 µg/kg sediment dw
Sediment (marine water)	392 µg/kg sediment dw
1934-21-0 C.I. Food Yellow 4	
Freshwater	120 µg/L
Intermittent releases (freshwater)	1.2 mg/L
Marine water	12 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	469.92 µg/kg sediment dw
Sediment (marine water)	46.992 µg/kg sediment 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**

• **Respiration protection:** Dust mask is recommended.

• **Protection of hands:** No special protection of hands required.

• **Eye protection:** No special eye protection required.

• **Environmental exposure controls:**

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

· 9.1 Information on basic physical and chemical properties	
· Appearance:	
Form	Liquid
Color	FLUORESCENT YELLOW; FLUORESCENT ORANGE; FLUORESCENT GREEN; LIGHT PINK; PINK; RED; LIGHT BLUE 3#; BLUE; GREEN; PURPLE; REDDISH BROWN; BLACK; YELLOW; ORANGE; VERMEIL; PLUM; DARK BLUE; BLACKISH GREEN; GRASS GREEN; LIGHT GREY; GREY; BROWN; LIGHT BROWN; LIGHT BLUE; PEACOCK BLUE; LIGHT ORANGE; DARK BROWN; TURQUOISE; MARROON; PEACH; LIGHT BROWN 1#; BLOOD BLUE; DEEP DARK GREEN; LIGHT BLUE 4#; ROSY RED; DARK GREY; SILVER; BABY PINK; BEIGE BROWN; GOLD; LILAC; SKIN; CARMINE; LIGHT YELLOW; ORANGE YELLOW; LIGHT TURQUOISE; ARMY GREEN; YELLOW GREEN
Odor	Odorless
Odor threshold	Not applicable
· pH-value	4-8 at 20°C
· Change in condition	
Melting point/melting range	Not determined
Boiling point and boiling range	Not determined
· Freezing point	Not determined
· Flash point	>93°C (closed cup)
· Flammability(solid, gas)	Not applicable
· Decomposition temperature	Not determined
· Self-ignition	Product is not self-igniting
· Danger of explosion	Product does not present explosive hazard
· Explosion limits	
Lower:	Not explosive
Upper:	Not explosive
· Oxidizing properties	Not determined
· Vapor pressure	Not determined
· Density	Not determined
· Relative density	Not determined
· Vapor 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
· 9.2 Other information	Not determined

SECTION 10: Stability and reactivity

· 10.1 Reactivity: No decomposition if used according to specification.

· 10.2 Chemical stability: Stable under recommended storage conditions.

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· 10.3 Possibility of hazardous reactions: No known hazardous reaction.

- **10.4 Conditions to avoid:** High temperature.
- **10.5 Incompatible materials:** Strong acid, strong oxidizers and alkali metals.
- **10.6 Hazardous decomposition products:** No known hazardous decomposition products.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** No animal test has been done for this product or the components.

56-81-5 Glycerin		
Rat	LD50-oral	12600mg/kg
Mouse	LD50-oral	4090mg/kg
Guinea pig	LD50-oral	7750mg/kg
Rabbit	LD50-oral	27000mg/kg
	LD50-skin	>10000mg/kg
2611-82-7 C.I. Acid Red 18		
Rat	LD50-oral	>8000mg/kg
1934-21-0 C.I. Food Yellow 4		
Mouse	LD50-oral	12750mg/kg
3520-42-1 C.I. Acid Red 52		
Mouse	LD50-oral	10300mg/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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** Not hazardous to the aquatic environment.

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
2611-82-7 C.I. Acid Red 18	
Short-term toxicity to fish	LC50 (4 days) 1 g/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 100 mg/L
Toxicity to aquatic plants other than algae	NOEC (7 days) 100 mg/L
Toxicity to microorganisms	EC50 (3 h) 1 g/L

Short-term toxicity to aquatic invertebrates	EC50 (48 h) 125 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 125 mg/L
<p>• 12.2 Persistence and degradability: Readily biodegradable.</p>	
56-81-5	Glycerin Readily biodegradable in water
<p>• 12.3 Bio-accumulative potential: Low bio-accumulation.</p>	
56-81-5	Glycerin Log Pow=-1.75 at 25 °C and pH 7.4
2611-82-7	C.I. Acid Red 18 Log Pow=-2.267 at pH 3.34
1934-21-0	C.I. Food Yellow 4 Log Pow= -1.657 at 20 °C and pH 6.13
<p>• 12.4 Mobility in soil: Low mobility in soil.</p>	
<p>• 12.5 Results of PBT and vPvB assessment</p> <p>PBT: Not applicable</p> <p>vPvB: Not applicable</p>	
<p>• 12.6 Other adverse effects: No further relevant information available.</p>	
<p>• 12.7 Additional ecological information</p> <p>• General notes: Water hazard class 1 (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.</p>	

SECTION 13: Disposal consideration

<p>• 13.1 Waste treatment methods</p> <p>• Recommendation: Small quantities can be disposed together with household garbage; Large quantities disposed must be in according to the local regulation.</p>	
<p>• 13.2 Un-cleaned packaging</p> <p>• Recommendation: Dispose of contents/container in according to the local regulation.</p>	
<p>SECTION 14: Transport information</p>	
<p>• 14.1 UN-Number ADR, RID, ADN, IMDG, IATA</p>	Not regulated as dangerous transport goods, not applicable
<p>• 14.2 UN proper shipping name ADR, RID, ADN, IMDG, IATA</p>	Void
<p>• 14.3 Transport hazard class (es) ADR, RID, ADN, IMDG, IATA Class Label</p>	Void Void
<p>• 14.4 Packing group ADR, RID, ADN, IMDG, IATA</p>	Void
<p>• 14.5 Marine pollution</p>	No
<p>• 14.6 Special precautions for user Danger code (Kemler) EMS Number</p>	Void Void Void
<p>• 14.7 UN Model Regulation</p>	Void

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:** Water hazard class 1 (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.

SECTION 16: Other information

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, 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 as 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

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

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Eurofins (Hangzhou) contact information

Customer service: ElsaSun@eurofins.com / +86 571 8720373

Sales specialist: SammyDong@eurofins.com / +86 571 81907003

The test item is subcontracted to other lab.

End of safety data sheet