

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008



Issue Date: 2023-02-24

EFSH22061288-CG-07

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

• **1.1 Product identifier**

• **Trade name:**

HIGHLIGHT INK BLUE MOS/742550YW00/HIGHLIGHT INK ORANGE MOS/HIGHLIGHT INK PINK MOS/HIGHLIGHT INK PURPLE MOS/HIGHLIGHT INK YELLOW MOS(742550BU00/ 742550GN00/ 742550OR00/ 742550PK00/ 742550PU00/ 742550YW00)

• **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, writing & coloring.

• **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:**

SuZhouMaped Office Supplies MFG. Co., Ltd.
NO.539 Nan bang road.215300 Kunshan City,Jiangsu Province,P.R.C
Email: Lily.Song@maped.com.cn
National contact: Lily Song

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

No information available.

• **Further information obtainable from:**

SuZhou Maped Office Supplies MFG. Co., Ltd.

• **1.4 Emergency telephone number**

No information available

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 labelled according to CLP Regulation.

• **Hazard pictograms:**

Eurofins Product Testing Service (Shanghai) Co., Ltd
Building 18, No.2168 Chenhang Highway, Minhang District,
Shanghai, China



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Not applicable

• **Signal word:**

Not applicable

• **Hazard-determining components of labelling:**

Not applicable

• **Hazard statements:**

Not applicable

• **Precautionary statement:**

Not applicable

• **Supplemental label elements:**

EUH208: Contains Basic Red 1:1. May produce an allergic reaction.

• **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:**

Highlighter ink color (Green, blue ,orange, yellow, pink ,purple)

Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Potassium sorbate	590-00-1	-	-	0.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-
Acid Red 92	18472-87-2	-	242-355-6	0.15	Eye Irrit.2, H319 Aquatic Chronic 2, H411	-
Basic yellow 40	29556-33-0	-	249-694-9	0.5	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE (oral)=1580 mg/kg
Basic Red 1:1	3068-39-1	-	221-326-1	0.15	Acute Tox. 4, H302 Skin Sens.1B, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE (oral)=410 mg/kg ATE (inhal.)=0.05 mg/l (dust) M=10 M(Chronic)=1

Additional information:

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

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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:

May produce an allergic reaction.

· 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 form corrosive/ toxic/ allergic vapor in air under fire.

· 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.

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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):**

See section 1.2.

SECTION 8: Exposure controls/personal protection

• **8.1 Control parameters**

• **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• **DNELs:**

DNEL type	DNEL worker value	DNEL consumer value
590-00-1 Potassium sorbate		

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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
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

• **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:**

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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
• 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	Not determined
• Flammability	Not flammable liquid
• Lower and upper explosion limit	Not determined
• Flash point	>93°C
• Auto-ignition temperature	Not determined
• Decomposition temperature	Not applicable
• pH	4-8 (20°C, 10g/100ml)
• Kinematic viscosity (mm²/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

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• 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
• 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

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• **11.1 Information on toxicological effects**

• **Acute toxicity:**

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

• **LD50/LC50 values relevant for classification:**

590-00-1 Potassium sorbate

Rat	LD50-oral	3800mg/kg
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Mouse	LD50-oral	4340mg/kg
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18472-87-2 Acid Red 92

Rat	LD50-oral	8400mg/kg
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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

• **12.1 Toxicity:**

LC50/EC50/NOEC values relevant for classification:

590-00-1 Potassium sorbate

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Short-term toxicity to fish	LC50 (4 days) 500 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 982 mg/L
Long-term toxicity to aquatic invertebrates	NOEC (21 days) 50 mg/L
Toxicity to microorganisms	EC50 (3 h) 100 mg/L
18472-87-2 Acid Red 92	
Short-term toxicity to fish	LC50 (4 days) 100 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 14.5 mg/L
Long-term toxicity to aquatic invertebrates	LOEC (10 days) 1 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 7.5 mg/L
Toxicity to microorganisms	NOEC 25 mg/L
3068-39-1 Basic Red 1:1	
Short-term toxicity to fish	LC50 (4 days) 6.85 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 1 mg/L LC50 (24 h) 5-8.06 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 23 µg/L
Toxicity to microorganisms	EC50 (3 h) 33 mg/L NOEC (3 h) 3.2 mg/L

• **12.2 Persistence and degradability:**

590-00-1	Potassium sorbate	Readily biodegradable in water
18472-87-2	Acid Red 92	Under test conditions no biodegradation observed
3068-39-1	Basic Red 1:1	Under test conditions no biodegradation observed

• **12.3 Bio-accumulative potential:**

590-00-1	Potassium sorbate	Log Pow = -1.72 - 1.32
18472-87-2	Acid Red 92	Log Pow = 0.165
3068-39-1	Basic Red 1:1	Log Pow = 1.7

• **12.4 Mobility in soil:**

590-00-1	Potassium sorbate	Henry's law constant = 0
18472-87-2	Acid Red 92	Log Koc=1.549
3068-39-1	Basic Red 1:1	Log Koc=2.306

• **12.5 Results of PBT and vPvB assessment:**

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

• **12.6 Endocrine disrupting properties:**

None of the ingredients (≥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.

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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.

- **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:**

However a Toxicological Risk Assessment (TRA) has been carried out.

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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

Acute Tox. 2: Acute toxicity, hazard category 2

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

• 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):

H302 Harmful if swallowed

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
H330 Fatal if inhaled
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.

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.

End of safety data sheet