SAFETY DATA SHEET

Ink-Blue

MAPLECHEM PRINTING MATERIAL CO., LTD.

According to GHS (Ninth Revised Edition)



Product and Company Identification Section 1

> Product Identifier

Product Name Ink-Blue

Synonyms

CAS No. Not applicable EC No. Not applicable **Molecular Formula** Not applicable

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified

Please consult manufacturer. Uses

Please consult manufacturer. **Uses Advised Against**

> Details of the Supplier of the Safety Data Sheet

Applicant Name MAPLECHEM PRINTING MATERIAL CO., LTD.

PRIVATE ECONOMIC DEVELOPMENT ZONE OF MAMIAO TOWN, HUAINING **Application Address**

COUNTY, ANQING, ANHUI, CHINA

Supplier Name MAPLECHEM PRINTING MATERIAL CO., LTD.

PRIVATE ECONOMIC DEVELOPMENT ZONE OF MAMIAO TOWN, HUAINING **Supplier Address**

COUNTY, ANQING, ANHUI, CHINA

Supplier Post Code 246121

Supplier Telephone +86-556-4654666 +86-556-4654896 **Supplier Fax** Supplier E-mail uubswc@163.com

> Emergency Phone Number

Emergency Phone +86-532-83889090 Number

Hazards Identification Section 2

Hazard class and label elements of the product according to GHS (the ninth revised edition):

> GHS Hazard Class

Flammable Liquids Category 2 **Acute Toxicity – Oral** Category 4 Acute Toxicity -Category 4 Dermal

Skin **Corrosion/Irritation**

Category 2

Serious Eye

Damage/Eye Irritation

Acute Toxicity –

Inhalation

Specific Target Organ Toxicity (Single

Exposure) :

Respiratory Tract

Irritation

Specific Target Organ

Toxicity (Single Exposure): Narcotic

Effects

Specific Target Organ

Toxicity (Single

Exposure)

Category 3

Category 1

Category 4

Category 3

Category 1

> GHS Label Elements

Pictogram

Signal Word Danger

> Hazard Statements

H225 Highly flammable liquid and vapour

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H318 Causes serious eye damage

H332 Harmful if inhaled

H335 May cause respiratory irritationH336 May cause drowsiness or dizziness

H370 Causes damage to organs

> Precautionary Statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands and other contact area thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face

protection/hearing protection.

P264+P265 Wash hands and other contact area thoroughly after handling. Do not touch

eyes.

Response	
P317	Get medical help.
P319	Get medical help if you feel unwell.
P321	Specific treatment (see measures on this label).
P330	Rinse mouth.
P301+P317	IF SWALLOWED:Get medical help.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P316	IF exposed or concerned:Get emergency medical help immediately.
P332+P317	If skin irritation occurs: Get medical help.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use suitable extinguishing medium to extinguish.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
P305+P354+P338	IF IN EYES:Immediately rinse with water for several minutes.Remove contact lenses,if present and easy to do.Continue rinsing.
Storage	
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 Composition/Information on Ingredients

Component	Concentration (weight percent, %)	CAS No.	EC No.
isobutanol	50	78-83-1	201-148-0
methanol	20	67-56-1	200-659-6
Polyvinyl butyral	10	63148-65-2	272-808-3
1-hydroxy-4-(p-toluidino)a nthraquinone	10	81-48-1	201-353-5
1-amino-4-(ethylamino)-9, 10-dihydro-9,10-dioxoanth racene-2-carbonitrile	10	62570-50-7	263-606-6

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

> Most Important Symptoms and Effects, both Acute and Delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

- **1** Treat symptomatically.
- 2 Symptoms may be delayed.

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable Extinguishing Media

Dry chemical, carbon dioxide or alcohol-resistant foam.

Unsuitable

Extinguishing MediaDo not use a solid water stream as it may scatter or spread fire.

> Specific Hazards Arising from the Substance or Mixture

- 1 Will form explosive mixtures with air.
- **2** Fire exposed containers may vent contents through pressure relief valves thereby increasing fire intensity and/ or vapour concentration.
- 3 Vapours may travel to source of ignition and flash back.
- 4 Liquid and vapour are flammable.
- **5** Containers may explode when heated.
- **6** Fire exposed containers may vent contents through pressure relief valves.
- 7 May expansion or decompose explosively when heated or involved in fire.

> Advice for Firefighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- **2** Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

- 1 Avoid breathing vapors and contacting with skin and eye.
- **2** Beware of vapours accumulating to form explosive concentrations.
- 3 Vapours can accumulate in low areas.
- 4 Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
- **5** Ensure adequate ventilation. Remove all sources of ignition.
- **6** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- 7 Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

> Environmental Precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

> Methods and Materials for Containment and Cleaning Up

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

- Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
- 3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7 Handling and Storage

> Precautions for Handling

- **1** Avoid inhalation of vapors.
- 2 Use only non-sparking tools.
- To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
- 4 Use explosion proof equipment.
- 5 Handling is performed in a well ventilated place.
- 6 Wear suitable protective equipment.
- 7 Avoid contact with skin and eyes.
- **8** Keep away from heat/sparks/open flames/ hot surfaces.
- **9** Take precautionary measures against static discharges.

> Precautions for Storage

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- **3** Keep away from heat/sparks/open flames/ hot surfaces.
- **4** Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

Commonant	Country/Dogion	Limit Value	e - Eight Hours	Limit Value - Short Term		
Component	Country/Region	ppm	mg/m³	ppm	mg/m³	
	USA - OSHA	100	300	-	-	
	South Korea	50	150	-	-	
isobutanol	Ireland	50	150	75	225	
78-83-1	Germany (AGS)	100	310	100	310	
	Denmark	50	150	50	150	
	Austria	50	150	200	600	
methanol 67-56-1	USA - OSHA	200	260	-	-	
	South Korea	200	260	250	310	
	Ireland	200	260	-	-	
	Germany (AGS)	200	270	800	1080	
	Denmark	200	260	400	520	
	Australia	200	262	250	328	

Biological Limit Values

No information available

Monitoring Methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

GBZ/T 160 Determination of toxic substances in workplace air(Series effective standard)and GBZ/T 2 300 Determination of toxic substances in workplace air(Series standard).

> Engineering Controls

Ensure adequate ventilation, especially in confined areas.

2 Ensure that eyewash stations and safety showers are close to the workstation location.

3 Use explosion-proof electrical/ventilating/lighting/equipment.

4 Set up emergency exit and necessary risk-elimination area.

Personal Protection Equipment

Eye Protection Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Wear protective gloves (such as butyl rubber), passing the tests according to **Hand Protection**

EN 374(EU), US F739 or AS/NZS 2161.1 standard.

If exposure limits are exceeded or if irritation or other symptoms are

experienced, use a full-face respirator with multi-purpose combination (US) or **Respiratory protection**

type AXBEK (EN 14387) respirator cartridges.

Skin and

Protection

Wear fire/flame resistant/retardant clothing and antistatic boots.

Section 9 **Physical and Chemical Properties**

Odor: No information available Appearance: Blue liquid **Odor Threshold:** No information available pH: No information available

Melting Point/Freezing Point (°C): No information Initial Boiling Point and Boiling Range (°C): No

available

Flash Point (°C)(Closed Cup): < 20.0 **Evaporation Rate:** No information available

Upper/lower explosive limits[%(v/v)]: Upper limit:

Flammability: Not applicable No information available; Lower limit: No information

available

Vapor Pressure (KPa): No information available

Relative Density(Water=1): No information

Body

available

n-Octanol/Water Partition Coefficient: No.

information available

Decomposition Temperature (°C): No information Kinematic Viscosity (mm²/s): No information

available

Particle characteristics: Not applicable

Relative Vapour Density(Air = 1): No information available

information available

Solubility: No information available

Auto-Ignition Temperature(°C): No information

available

available

Section 10 **Stability and Reactivity**

Contact with incompatible substances can cause decomposition or other Reactivity

chemical reactions.

Chemical Stability Stable under proper operation and storage conditions.

Possibility of In contact with oxidants causes severe reactions, and may cause a fire or

Hazardous Reactions explosion.

Conditions to Avoid Incompatible materials, heat, flame and spark.

Incompatible Materials Oxidants, alkali metals, alkaline earth metals and aluminum.

Hazardous Decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

> Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation, 4h)	
isobutanol	78-83-1	2460mg/kg(Rat)	3400mg/kg(Rabbit)	No information available	
methanol	67-56-1	5628mg/kg(Rat)	15800mg/kg(Rabbit)	83.867mg/L(Rat)	

> Skin Corrosion/Irritation

Causes skin irritation(Category 2)

> Serious Eye Damage/Irritation

Causes serious eye damage(Category 1)

> Skin Sensitization

No information available

> Respiratory Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

ID	CAS No.	Component	IARC	NTP	
1	78-83-1	isobutanol	Not Listed	Not Listed	
2	67-56-1	methanol	Not Listed	Not Listed	
3	63148-65-2	Polyvinyl butyral	Not Listed	Not Listed	
4	81-48-1	1-hydroxy-4-(p-toluidi no)anthraquinone	Not Listed	Not Listed	
5	62570-50-7	1-amino-4-(ethylamin o)-9,10-dihydro-9,10-d ioxoanthracene-2-carb onitrile	Not Listed	Not Listed	

> Reproductive Toxicity

No information available

> Reproductive Toxicity (Additional)

No information available

> STOT-Single Exposure

May cause respiratory irritation(Category 3)

> STOT-Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information

> Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae	
isobutanol	78-83-1	LC ₅₀ : 1510mg/L (96h)(Fish)	EC ₅₀ : 1200mg/L (48h)	No information available	
methanol	67-56-1	LC ₅₀ : 24000mg/L (96h)(Fish)	EC ₅₀ : 24500mg/L (48h)	No information available	

> Chronic Aquatic Toxicity

No information available

> Others

Persistence and Degradability **Bioaccumulative**

Potential

Mobility in Soil

No information available

No information available

No information available

isobutanol does not meet the criteria for PBT and vPvB according to Regulation

(EC) No 1907/2006, annex XIII.

methanol does not meet the criteria for PBT and vPvB according to Regulation

(EC) No 1907/2006, annex XIII.

Results of PBT and **vPvB** Assessment

Polyvinyl butyral does not meet the criteria for PBT and vPvB according to

Regulation (EC) No 1907/2006, annex XIII.

1-hydroxy-4-(p-toluidino)anthraquinone does not meet the criteria for PBT and

vPvB according to Regulation (EC) No 1907/2006, annex XIII.

1-amino-4-(ethylamino)-9,10-dihydro-9,10-dioxoanthracene-2-carbonitrile does not meet the criteria for PBT and vPvB according to Regulation (EC) No

1907/2006, annex XIII.

Section 13 Disposal Considerations

Waste Chemicals Before disposal should refer to the relevant national and local laws and

regulation.

Contaminated Packaging Disposal

Recommendations

Containers may still present chemical hazard when empty. Keep away from hot

and ignition source of fire. Return to supplier for recycling if possible.

Refer to Waste chemicals and Contaminated packaging.

Transporting Label



None **Marine pollutant**

UN Number 1210

UN Proper Shipping Name

PRINTING INK, flammable

Transport Hazard Class

Transport Subsidiary

NONE

Hazard Class

П

3

Packing Group

Section 15 Regulatory Information

> International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
isobutanol	√	√	√	√	√	√	√	√	√
methanol	√	√	√	√	√	√	√	√	√
Polyvinyl butyral	×	√	√	√	√	√	√	√	√
1-hydroxy-4-(p-tol uidino)anthraquin one	√	√	√	√	√	√	√	√	√
1-amino-4-(ethyla mino)-9,10-dihydr o-9,10-dioxoanthr acene-2-carbonitril e	√	√	×	√	√	×	√	√	×

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

[TSCA] United States Toxic Substances Control Act Inventory.

[DSL] Canadian Domestic Substances List.

[IECSC] China Inventory of Existing Chemical Substances.

[NZIoC] New Zealand Inventory of Chemicals.

[PICCS] Philippines Inventory of Chemicals and Chemical Substances.

Existing and Evaluated Chemical Substances. [KECI] Australia Inventory of Chemical Substances. [AICS]

[ENCS] Existing And New Chemical Substances.

Note

" $\sqrt{}$ " Indicates that the substance included in the regulations

"x" That no data or included in the regulations

Section 16 Additional Information

Creation Date 2023/09/18 **Revision Date** 2023/09/18

Reason for Revision

> Disclaimer

This Safety Data Sheet (SDS) was prepared according to UN GHS (the 9th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.