



## **BIC AUSTRALIA PTY. LTD.**

A.C.N. 004 304 830 A.B.N. 88 004 304 830

### **Information Cover Sheet for INTERNATIONAL SAFETY DATA SHEET**

#### **Identification of the Material and Supplier**

**Product Name:** Permanent blue ink

**Material Safety Data Sheet expiry:** 9 July 2020

**Australian Contact Information:**

BIC Australia Pty. Ltd.

Level 4, 574 St Kilda Road MELBOURNE VIC 3004

Tel: (03) 9533 3500 (business hours)

Fax: (03) 9533 7348

**Emergency Phone Numbers**

Transport /Fire Emergency: 000 (Emergency services)

Medical Emergency: 131126 (Poisons information)

#### **Hazards Identification**

Based on available information, this is a Hazardous Substance

This product is a dangerous good

#### **Transport Information**

Hazchem code: UN Number: 1210 Class: 3 YE Liquid

# PM-45 blue Ink

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date: 09/07/2015 Supersedes

Version: 1.0

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

#### 1.1. Product identifier

Substance or preparation : Mixture  
Product name : PM-45 blue Ink

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Ink for marker

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

SOCIETE BIC  
14, Rue Jeanne d'Asnières  
92611 CLICHY Cédex  
T +33 01 45 19 52 00 - F +33 01 45 19 52 99  
[Bic.Contact@bicworld.com](mailto:Bic.Contact@bicworld.com)

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 6ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226  
STOT SE 3 H336  
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

: Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. In a usual writing situation, quantities of ink layed down by the pen are normally too small to occasion significant exposure and cause adverse effects on the user's health.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Hazardous ingredients

: 1-methoxy-2-propanol

Hazard statements (CLP)

: H226 - Flammable liquid and vapour  
H336 - May cause drowsiness or dizziness  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P261 - Avoid breathing vapours  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P501 - Dispose of contents/container to an approved waste disposal plant

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### 2.3. Other hazards

Other hazards not contributing to the classification : None, to our knowledge.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-methoxy-2-propanol	(CAS No) 000107-98-2 (EC no) 203-539-1 (EC index no) 603-064-00-3	80 - 90	Fam Liq 3, H226 STOT SE 3, H336
CI Solvent blue 70	(CAS No) 94277-77-7 (EC no) 304-661-9	1 - 10	Aquatic Chronic 3, H412
2-butoxyethanol	(CAS No) 000111-76-2 (EC no) 203-905-0 (EC index no) 603-014-00-0	1 - 10	Acute Tox 4 (Inhalation), H332 Acute Tox 4 (Dermal), H312 Acute Tox 4 (Oral), H302 Eye Irrit 2, H319 Skin Irrit 2, H315
Sepisol Fast blue 85219	(REACH-no) 01-2119849063-38	1 - 10	Acute Tox 4 (Oral), H302 Eye Irrit 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Basic violet 1 derivative	(CAS No) 8004-87-3	< 1	Eye Dam 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H-phrases, see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. Seek medical attention if ill effect develops.

First-aid measures after skin contact : Wash with soapy water. If case of redness or irritation, call a doctor.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. If irritation persists, consult an eye specialist.

First-aid measures after ingestion : Seek medical advice (show the label where possible).

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Dizziness, Drowsiness

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Hazy water, carbon dioxide (CO<sub>2</sub>), foam and powder.

### 5.2. Special hazards arising from the substance or mixture

Explosion hazard : Explosive vapour/air mixtures may be formed.

### 5.3. Advice for firefighters

Precautionary measures fire : Evacuate the danger area. Cool down the containers exposed to heat with a water spray. Contain the extinguishing fluids by bunding (the product is hazardous for the environment).

Protection of fire-fighters : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes. Do not breathe smoke. No flames, no sparks. Eliminate all sources of ignition. In case of important spillage, mark out the contaminated area with signs and prevent access to unauthorized personnel. Prevent the product from entering drains (risk of explosion). Ventilate spillage area. No smoking.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spilled material by bunding (product is hazardous for the environment).

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Liquid spill: take up in sand, earth, vermiculite. Wash away residue with large amounts of water. Dispose of contaminated materials in accordance with current regulations.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Vapour exhaust preferably at emission point. Use non-sparking tools. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Smoking is forbidden.

Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : The floor of the depot must be impermeable, non-combustible and designed to form a basin, in order that stored flammable liquids should not, under any circumstances, be released outside.

Storage conditions : Store in a cool, well-ventilated place. Keep container tightly closed. Avoid ignition sources. Keep away from naked flames/heat.

Incompatible materials : Strong oxidizing agents.

Packaging materials : Preferably keep in original container.

#### 7.3. Specific end use(s)

No additional information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

2-butoxyethanol (000111-76-2)		
EU	IOELV TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm

#### 8.2. Exposure controls

Technical measures : Extraction to remove vapours at their source. Ensure good ventilation of the work station.

Hand protection : Protective rubber gloves, resistant to solvents. Breakthrough time : refer to the recommendations of the supplier.

Eye protection : Safety glasses.

Respiratory protection : In the event of insufficient ventilation: Self-contained breathing apparatus.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : blue.

Odour : No data available.

Odour threshold : No data available.

pH : No data available.

Relative evaporation rate (butylacetate=1) : No data available.

Melting point : No data available.

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: 31 - 55 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

To our knowledge, the product does not present any particular risk.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Flammable liquid. Flammable or explosive vapour/air mixtures may be formed.

### 10.4. Conditions to avoid

Heat. Sparks. Open flame. Ignition sources.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO<sub>2</sub>) Various hydrocarbon fragments.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

<b>1-methoxy-2-propanol (000107-98-2)</b>	
LD50 oral rat	6000 mg/kg
LD50 dermal rabbit	11000 mg/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

<b>1-methoxy-2-propanol (000107-98-2)</b>	
LC50 fish 1	4600 - 10000 mg/l/96h (Leucidus idus)

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<b>1-methoxy-2-propanol (000107-98-2)</b>	
EC50 Daphnia	> 500 mg/l/48h (Daphnia magna)
<b>Sepisol Fast blue 85219</b>	
EC50 Daphnia	0.047 mg/l/48h (Daphnia magna)

### 12.2. Persistence and degradability

<b>1-methoxy-2-propanol (000107-98-2)</b>	
Persistence and degradability	96 % biodegradation / 28 days. Readily biodegradable.

### 12.3. Bioaccumulative potential

<b>1-methoxy-2-propanol (000107-98-2)</b>	
Log Pow	-0.437
Bioaccumulative potential	Not potentially bioaccumulable.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available




## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of in accordance with relevant local regulations. Destroy at an authorised site.  
 Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
<b>14.1. UN number</b>		
1210	1210	1210
<b>14.2. UN proper shipping name</b>		
PRINTING INK RELATED MATERIAL	PRINTING INK RELATED MATERIAL	PRINTING INK RELATED MATERIAL
<b>Transport document description</b>		
UN 1210 PRINTING INK RELATED MATERIAL, 3, III, (D/E)	UN 1210 PRINTING INK RELATED MATERIAL, 3, III	
<b>14.3. Transport hazard class(es)</b>		
3	3	3
		
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No

### 14.6. Special precautions for user

#### - Overland transport

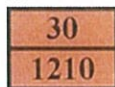
Classification code (ADR) : F1  
 Special provisions (ADR) : 163, 640E  
 Limited quantities (ADR) : 5I  
 Excepted quantities (ADR) : E1  
 Packing instructions (ADR) : P001, IBC03, LP01, R001  
 Special packing provisions (ADR) : PP1  
 Mixed packing provisions (ADR) : MP19  
 Portable tank and bulk container instructions (ADR) : T2

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Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: -3YE

#### - Transport by sea

Special provisions (IMDG)	: 163, 223, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: A
MFAG-No.	: 129, 130

#### - Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3, A72, A192
ERG code (IATA)	: 3L

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

Contains no substances with Annex XVII restrictions  
Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances

##### 15.1.2. National regulations

No additional information available

##### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

#### Data sources

- ECHA (European Chemicals Agency) HSDB (Hazardous Substances Data Bank) (National Library of Medicine), RTECS (Registry of Toxic effects of Chemical Substances) MSDS of suppliers.

#### Other information

- No experimental study is available on the mixture. Information hereunder are based on our knowledge on components, and classification of the mixture is determined with the calculation method

Safety data sheet established by : LISAM SERVICES - TELEGIS  
Rue de la Coulure F-60400 PASSEL  
Safety Made Easy with [www.lisam.com](http://www.lisam.com).

#### Full text of H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

#### SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*