



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 Marker ink

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

This is a Hazardous Substance according to the criteria of Safe Work Australia

This product is a Dangerous Good

Transport Information

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

Regulatory Information

This is listed on the Australian Inventory of Chemical Substances (AICS)

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| MATERIAL SAFETY DATA SHEET | Page : 1 |
| | Version : 3 |
| | Date : 14/3/2008 |
| | Supersedes : 30/11/2006 |
| Inks PM-43 (blue, green, black) and PM-44 (red) for permanent marker | BIC |

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

* PRODUCT NAME : Inks PM-43 (blue, green, black) and PM-44 (red) for permanent marker
 Recommended uses : Ink for marker
 SUPPLIER :
 Name : SOCIETE BIC
 Address : 14, Rue Jeanne d'Asnières
 92611 CLICHY Cédex
 FRANCE
 Telephone number : +33 01 45 19 52 00
 Telefax number : +33 01 45 19 52 99
 EMERGENCY TELEPHONE NUMBER : ORFILA (France) : +33 01 45 42 59 59

2. HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS :
 Adverse human health effects : To our knowledge, no specific risk when handled in accordance with good occupational hygiene and safety practice.
 Environmental effects : Presents no particular risk to the environment, provided the recommendations concerning disposal (see section 13) and any applicable national or local regulations are complied with
 Physical and chemical hazards :
 - Fire or explosion : Flammable liquid
 Classification of the product : According to European regulations, this product is classified as :
 - FLAMMABLE

3. COMPOSITION / INFORMATION ON INGREDIENTS

MIXTURE :
 Chemical nature : Mixture of resin in solution in solvents and dyes
 Hazardous constituents :

| Substance name | Contents | CAS No / EC No / Index No | Symbol(s) | R-Phrase(s) |
|---------------------------------|-------------|-------------------------------------|-----------|----------------|
| 1-methoxy-2-propanol | : 75 - 90 % | 107-98-2 / 203-539-1 / 603-064-00-3 | | 10 |
| 2-butoxyethanol | : < 10 % | 111-76-2 / 203-905-0 / 603-014-00-0 | Xn | 20/21/22-36/38 |
| Depending on the colours : | : | --- / --- / --- | | |
| C.I. Solvent blue 38 | : < 10 % | 1328-51-4 / 215-523-1 / --- | Xn | 22 |
| C.I. Solvent yellow 47 | : < 10 % | 71077-14-0 / 275-170-4 / --- | Xn | 22 |
| C.I. Solvent red 127 | : < 10 % | 97862-65-2 / 308-114-5 / --- | Xn N | 22-51/53 |
| C.I. Basic violet 1 derivatives | : < 10 % | 8004-87-3 / --- / --- | Xn N | 22-41-50/53 |
| C.I. Basic violet 10 | : < 10 % | 81-88-9 / 201-383-9 / --- | Xn | 22-41-52/53 |

4. FIRST AID MEASURES

Inhalation : Move the affected person away from the contaminated area and into the fresh air if the person feels unwell :
 Call a doctor
 Skin contact : Remove all contaminated clothing and footwear
 Wash immediately with plenty of soap and water
 Eye contact : Rinse immediately and thoroughly with plenty of water whilst keeping the eyes wide open (at least 15 minutes)

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4. FIRST AID MEASURES

(continued)

Ingestion : If irritation persists, consult an eye specialist
Consult a doctor

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water
Carbon dioxide (CO₂)
Alcohol-resistant foam
Powders

Specific hazards : Explosive vapour/air mixtures may be formed

Specific fire fighting methods : Clear the danger area
Do not attempt to fight the fire without suitable protective equipment
Cool down the containers/equipment exposed to heat with a water spray
Contain the extinguishing fluids by bunding

Protection of fire-fighters : Complete protective clothing
Self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Do not breathe vapours
Avoid contact with skin and eyes
No flames, no sparks. Eliminate all sources of ignition.
Do not smoke
Protective equipment :
- full protective clothing and equipment
- respiratory protective device
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

Environmental precautions : Contain the spilled material by bunding
Do not discharge into drains and rivers

Methods for cleaning up :

- Recovery : Recover the product by mechanical means.
- Neutralization : Absorb non-recoverable liquid with:
- inert absorbent material
- earth or sand
- Cleaning/decontamination : Wash contaminated area with large amounts of water
- Disposal : Dispose of contaminated materials in accordance with current regulations

7. HANDLING AND STORAGE

HANDLING

Technical measures : Vapour extraction at source
Use NON-sparking tools

Precautions : Avoid contact with skin and eyes.
Avoid the build-up of electrostatic charge
Smoking is forbidden

STORAGE

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 :

- Recommended : Store :

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7. HANDLING AND STORAGE

(continued)

- in a cool and dry area
 - in a well-ventilated area
 - the container tightly closed
 - away from any source of ignition
 - away from heat
 - away from any flames
- Incompatible materials : Flammable or combustible materials
Oxidizing materials
Acids
- Packaging materials :
- Recommended : Original packaging

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Engineering measures : Ensure good ventilation of the work station
Extraction to remove vapours at their source
- Occupational exposure limits :
- France :
 - 1-Méthoxy-2-propanol :
VME : 375 mg/m³ (100 ppm)
 - VLE : 568 mg/m³ (150 ppm)
 - 2-Butoxyethanol :
VME : 9,8 mg/m³ (2 ppm)
 - VLE : 147,6 mg/m³ (30 ppm)
 - European Community :
 - 1-Méthoxy-2-propanol :
VME : 375 mg/m³ (100 ppm)
 - VLE : 568 mg/m³ (150 ppm)
- Personal protective equipment :
- Respiratory protection : In the event of insufficient ventilation :
Self-contained breathing apparatus
 - Hand protection : Protective rubber gloves, resistant to solvents
Breakthrough time : refer to the recommendations of the supplier
 - Eye protection : Safely spectacles
- Hygiene measures : Do not drink, eat or smoke in the workplace
Always wash your hands after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : Liquid
- Colour : blue, red, black or green
- Odour : ether.
- pH : Not applicable
- Specific temperatures :
- Boiling : 1-Méthoxy-2-propanol : 120 °C
- Flammability characteristics :
- Flash point : 31-55 °C
1-Méthoxy-2-propanol : 31 °C
- Specific gravity : 0,95 g/cm³
- Solubility :
- In water : Soluble

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10. STABILITY AND REACTIVITY

| | |
|--------------------------------------|--|
| Stability : | Stable under normal conditions of use |
| Hazardous reactions : | |
| - Conditions to avoid : | Heat, sparks, open flames, ignition source |
| - Materials to avoid : | - strong oxidizing agents - acids |
| - Hazardous decomposition products : | On combustion or on thermal decomposition (pyrolysis) releases : Carbon oxides (CO, CO ₂) Nitrogen oxides Sulphur oxides Chromium oxides Hydrocarbons |

11. TOXICOLOGICAL INFORMATION

| | |
|-----------------------|---|
| Product as it is : | No particular risk when handled in accordance with good occupational hygiene practice. |
| Acute toxicity : | 1-Méthoxy-2-propanol : LD 50 skin (Rabbit) : 11000 mg/kg LD 50 oral (rat) : 6000 mg/kg (published data) |
| Acute symptoms : | 1-Méthoxy-2-propanol : Irritation to throat and respiratory system Nausea Vomiting Central Nervous System depressant |
| Further information : | Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker which will limit considerably the exposure possibilities for the user |

12. ECOLOGICAL INFORMATION

| | |
|---------------------------------------|--|
| DEGRADABILITY : | 1-Méthoxy-2-propanol : 96 % biodegradation after 28 days Easy biodegradable |
| BIOACCUMULATION : | |
| Octanol/water partition coefficient : | 1-Méthoxy-2-propanol : -0.437 (log POW) Not potentially bioaccumulable |
| ECOTOXICITY : | |
| Effects on the aquatic environment : | No information available, however this product is not considered to present any particular risk for the aquatic environment. 1-Méthoxy-2-propanol : EC 50 (Daphnia : Daphnia magna) / 48h : > 500 mg/l LC 50 (Fish : Leuciscus idus) / 96 h : 4600 - 10000 mg/l (published data) |

13. DISPOSAL CONSIDERATIONS

| | |
|--------------------------|--|
| WASTE FROM PRODUCT : | |
| Destruction/Disposal : | Dispose of in accordance with relevant local regulations |
| CONTAMINATED PACKAGING : | |
| Destruction/disposal : | Destroy at an authorised site |
| NOTE : | The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal |

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14. TRANSPORT INFORMATION

INTERNATIONAL REGULATIONS :

- UN No. 1210

Land transportation :

- Rail/road (RID/ADR) :

Class : 3
 Classification code : F1
 Labelling : 3
 Packing group : III
 Hazard identification number : 33
 Description : PRINTING INK

Sea (IMO/IMDG) :

Class : 3
 Packing group : III
 Labelling : 3
 Emergency schedule (EmS) : F-E, S-D
 Description : PRINTING INK

Hazchem code:
 3 YE Fluid

Air (ICAO-IATA) :

Class : 3
 Packing group : III
 Labelling : Flammable liquid
 Passenger aircraft :
 Packing instruction : Y309
 Quantity : 10 L
 Cargo aircraft :
 Packing instruction : 310
 Quantity : 220 L
 Description : PRINTING INK

NOTE :

The above regulatory prescriptions are those valid on the date of publication of this sheet
 Given the possible evolution of transport regulations for hazardous materials, in case the present sheet is dating back to more than 12 months ago, it would be advisable to check their validity with your commercial agency

15. REGULATORY INFORMATION

EC LABELLING :

Regulatory provisions on labeling don't apply to the marker. Only ink in cans is concerned

- Symbols and indications of danger :

No symbol

- R phrases :

R10 : Flammable.

- S phrases :

S2 : Keep out of the reach of children.

S16 : Keep away from sources of ignition - No smoking.

- Further data :

Reduced labelling allowed for small packaging

FURTHER REGULATIONS :

National prescriptions :

Occupational diseases (table(s) n° 84) : concerned

The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS The user's attention is drawn to the possible existence of additional provisions which complete these regulations Refer to all applicable international, national and local regulations or provisions

16. OTHER INFORMATION

Restrictions on use :

This product must not be used for other applications that mentioned in §1.

* Update :

This sheet was updated (refer to the date at the top of this page)

Texts which have been modified since the previous version are marked with an asterisk (*)

Safety data sheet established by :

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 6 rue des Boucheries F-60400 NOYON
 www.telegis.com
 Safety Made Easy with www.lisam.com

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| 3. COMPOSITION / INFORMATION ON INGREDIENTS | (continued) |
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This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.
 Besides, the attention of the user is drawn to the possible risk incurred by using the product for any other use than that for which it was intended.
 In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.
 The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

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