

# MATERIAL SAFETY DATA SHEET

**Product****INK FOR BIC® ONYX MARKER**

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Product code : BIC19

Version : 1

Date : 23/09/2003

**1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME : INK FOR BIC® ONYX MARKER (1481 - 1591)

SUPPLIER :

Name : SOCIETE BIC

Address : 14, rue Jeanne d'Asnières  
92611 CLICHY Cédex

Telephone number : 01 45 19 52 00

Telefax number : 01 45 19 52 99

EMERGENCY TELEPHONE

NUMBER : ORFILA (France) : 33 1 45 42 59 59

Recommended use : Ink

**2 COMPOSITION / INFORMATION ON INGREDIENTS**

PREPARATION :

Chemical nature : Mixture based on solvents and dyes

Components contributing to the  
hazard :Xylene, mixture of isomers (CAS : 1330-20-7, EINECS : 215-535-7, EC  
classification : R10 - Xn; R20/21 - Xi; R38) : < 30 %Ethylbenzene (CAS : 100-41-4, EINECS : 202-849-4, EC classification : F;  
R11 - Xn; R20) : < 10 %Toluene (CAS : 108-88-3, EINECS : 203-625-9, EC classification : F; R11 -  
Xn; R20) : < 30 %Solvent naphtha (petroleum), light arom. (CAS : 64742-95-6, EINECS :  
265-199-0, EC self-class. : R10 - Xi; R37 - Xn; R65 - N; R51/53) : < 20 %Solvent naphtha (petroleum), heavy arom. (CAS : 64742-94-5, EINECS :  
269-198-5, EC self-class. : Xn; R65 - N; R51/53) : < 20 %Phenol (CAS : 108-95-2, EINECS : 203-632-7, EC classification : T;  
R24/25 - C; R34) : < 5 %Cresol (CAS : 1319-77-3, EINECS : 215-293-2, EC classification : T;  
R24/25 - C; R34) : < 5 %Xylenol (CAS : 1300-71-6, EINECS : 215-089-3, EC classification : T;  
R24/25 - C; R34 - N; R51/53) : < 2 %**3 HAZARDS IDENTIFICATION**

MOST IMPORTANT HAZARDS :

Adverse human health effects :

Harmful by inhalation, on contact with skin and if swallowed

Harmful : May cause lung damage if swallowed

Irritating to eyes and skin

Environmental effects :

Toxic to aquatic organisms

May cause long-term adverse effects to the aquatic environment.

Physical and chemical hazards :

- Fire or explosion :

Very flammable liquid.

Burning and thermal decomposition may form toxic by-products

Classification of the product :

According to European regulations, this product is classified as :

- HIGHLY FLAMMABLE

- HARMFUL

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Further information :

- IRRITANT  
- DANGEROUS FOR THE ENVIRONMENT.

In a usual writing situation, quantities of ink layed down or vapours emitted by the marker are normally too small to occasion significant exposure and cause adverse effects on the user's health

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## 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 : Immediately rinse with plenty of water.  
In case of redness or irritation, call a doctor

Eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum)  
Consult an eye specialist if necessary

Ingestion : Never attempt to induce vomiting  
Call a doctor immediately

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## 5 FIRE FIGHTING MEASURES

Suitable extinguishing media : Water spray  
Carbon dioxide (CO2)  
Foam  
Powders

Not suitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents

Specific hazards : During combustion :  
Toxic vapors may be released  
Vapour/air mixtures are explosive  
The vapours are denser than air and may travel along the ground. Distance ignition possible.

Specific fire fighting methods : Contain the extinguishing fluids by bunding (the product is hazardous for the environment).  
Do not attempt to fight the fire without suitable protective equipment

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

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## 6 ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid contact with skin and eyes  
Do not breathe vapours  
Do not smoke  
No flames, no sparks. Eliminate all sources of ignition  
In case of important spillage :  
Only qualified personnel equipped with appropriate protective equipment may intervene

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Environmental precautions :	Contain the spilled material by bunding (product is hazardous for the environment) Do not discharge into drains and rivers
Methods for cleaning up :	
- Neutralization :	Absorb spillage with: - inert absorbent material - earth or sand
- Cleaning/decontamination :	Wash non-recoverable remainder with large amounts of water
- Disposal :	Dispose of contaminated materials in accordance with current regulations

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## 7 HANDLING AND STORAGE

### HANDLING

Technical measures :	Vapour extraction at source Material and equipment suitable for use under explosive conditions. Use NON-sparking tools.
Precautions :	Avoid any direct contact with the product Work in a well-ventilated area Smoking is forbidden Avoid the build-up of electrostatic charge

### 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 : - in a cool, well-ventilated area - the container tightly closed - away from any source of ignition
Incompatible materials :	Flammable or combustible materials Strong oxidizing agents Acids Halogens
Packaging materials :	
- Not suitable :	Certain plastic materials. Rubbers. Metals and light alloys

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## 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 :	Xylene, mixture of isomers : VME = 435 mg/m <sup>3</sup> ( 100 ppm ) Xylene, mixture of isomers : VLE = 650 mg/m <sup>3</sup> ( 150 ppm ). Toluene : VME = 375 mg/m <sup>3</sup> ( 100 ppm )

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Toluene : VLE = 550 mg/m<sup>3</sup> ( 150 ppm )  
Phenol : VME = 19 mg/m<sup>3</sup> ( 5 ppm ).  
Ethylbenzene : VME = 435 mg/m<sup>3</sup>(100 ppm)  
Cresol : VME = 22 mg/m<sup>3</sup> (5 ppm)

### Personal protective equipment :

- |                            |   |
|----------------------------|---|
| - Respiratory protection : | Self-contained breathing apparatus          |
| - Hand protection :        | Impermeable protective gloves               |
| - Eye protection :         | Safety spectacles                           |
| Hygiene measures :         | Do not drink, eat or smoke in the workplace |

## 9 PHYSICAL AND CHEMICAL PROPERTIES

- |                                |  |
|--------------------------------|--|
| Physical state :               | Liquid                                   |
| Colour :                       | Variable                                 |
| Odour :                        | solvent.                                 |
| pH :                           | Not applicable                           |
| Specific temperatures :        |  |
| - Boiling :                    | ~ 110 °C                                 |
| Flammability characteristics : |  |
| - Flash point :                | ~ 6 °C                                   |
| - Auto-ignition temperature :  | 470°C (spontaneous ignition temperature) |
| Explosive limits in air :      |  |
| - Lower :                      | 0.6% (volume)                            |
| - Upper :                      | 7.6 % (volume).                          |
| Vapour density (air = 1) :     | ~ 3.7                                    |
| Specific gravity :             | 0.91 g/cm <sup>3</sup>                   |
| Solubility :                   |  |
| - in water :                   | Not available                            |
| - in organic solvents :        | Not available                            |
| Kinematic viscosity :          | 5 mm <sup>2</sup> /s at 20 °C            |

## 10 STABILITY AND REACTIVITY

- |                         |   |
|-------------------------|---|
| Stability :             | Stable at ambient temperature and under normal conditions of use  |
| Hazardous reactions :   |   |
| - Conditions to avoid : | May explode or ignite :<br>- on heating                           |
| - Materials to avoid :  | - strong oxidizing agents<br>- acids<br>- halogens (F, Cl, Br, I) |

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- Hazardous decomposition  
products :

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

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## 11 TOXICOLOGICAL INFORMATION

Acute toxicity :

Harmful by inhalation.  
Vapours may cause drowsiness and dizziness  
(published data)  
Harmful in contact with skin  
Harmful if swallowed  
Harmful : May cause lung damage if swallowed

Local effects :

Irritating to the skin  
Irritating to the eyes

Chronic/long term toxicity :

Harmful: risk of serious damage to health by prolonged exposure through  
inhalation.  
(Bibliographic results).

Specific effects :

- Mutagenicity :

Possible risk of irreversible effects.  
(published data)

- Reproductive toxicity :

Possible risk of harm to the unborn child.  
(published data)

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

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## 12 ECOLOGICAL INFORMATION

Product as is :

Avoid discharge of the product as is into the environment

ECOTOXICITY :

Effects on the aquatic environment :

Toxic to aquatic organisms  
May cause long-term adverse effects to the aquatic environment.

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## 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 :****Land transportation :****- Rail/road (RID/ADR) :**

UN number : 1210  
Class : 3  
Classification code : F1  
Packaging group : II  
Labelling : 3  
Hazard identification number : 33

**Sea (IMO/IMDG) :**

UN number : 1210  
Class : 3  
Packaging group : II  
Labelling : 3

**Air (ICAO-IATA) :**

UN number : 1210  
Class : 3  
Packing group : II  
Labelling : 3

**Further information :**

Prescriptions on the transport of dangerous goods apply to the ink only.  
They don't apply to the marker

**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 :**

Marker : not applicable  
Ink :  
Mandatory labelling (self-classification) of hazardous preparations : applicable

**Identification of the hazardous product :**

Contains :  
Xylene, mixture of isomers  
Toluene  
Phenol  
Cresol

**- Symbols and indications of danger :**

- HIGHLY FLAMMABLE (F)  
- HARMFUL (Xn)  
- DANGEROUS FOR THE ENVIRONMENT (N)

**- R phrases :**

R 11: Highly flammable.  
R 20/21/22 : Harmful by inhalation, in contact with skin and if swallowed  
R 36/38 : Irritating to eyes and skin  
R 65 : Harmful : May cause lung damage if swallowed

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**- S phrases :**

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 1/2 : Keep locked up and out of the reach of children

S 9 : Keep container in a well-ventilated place.

S 16 : Keep away from sources of ignition - No smoking

S 26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 36/37 : Wear suitable protective clothing and gloves

S 62 : If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label

**FURTHER REGULATIONS :**

National prescriptions :

France :

Maladies professionnelles (tableau(x) n° 4 bis, 84) : concerné

NOTE :

The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS  
The cited basic community texts are being updated and transcribed in national law

Refer to all applicable international, national and local regulations or provisions

The user's attention is drawn to the possible existence of additional provisions which complete these regulations

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**16 OTHER INFORMATION**

Restrictions on use :

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

Safety data sheet established by :

TELEGIS SARL, 6 rue des Boucheries F-60400 NOYON

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This sheet completes the technical sheets but it does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith.

The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended.

This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

The mandatory regulations mentioned are only intended to help the user to fulfil his obligations regarding the use of hazardous products.

This listing must not be considered exhaustive. It does not exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

Note : the supplying of a material safety data sheet is not mandatory for manufactured articles which contain dangerous substances or preparations, when these latter are packaged so that they do not present any danger for the user.

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**End of document.****Number of pages : 7**