

F A X T R A N S M I T T A L



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transmittal, please call the
number below.*

MESSAGE:

Attached please find the MSDS that you requested for the following products:

- *BIC® Grip Permanent Marker*
- *BIC® 4X4™ Grip Permanent Marker*

Please note that our MSDS are written for bulk volumes of ink (approximately 55 gallons) and not for the amount of ink contained in the markers listed above (1.5 grams and 6.2 grams respectively).

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BIC Corporation, 500 BIC Drive, Milford, Connecticut 06460 USA www.bicworld.com

INK FOR BIC® PERMANENT GRIP MARKER (fine)

JAN 2003

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME : INK FOR : BIC® PERMANENT GRIP MARKER (fine)
(all colors)

SUPPLIER : BIC / CONTE S.A.
6, rue Gerhard Hansen
BP 349
82 205 BOULOGNE SUR MER CEDEX, France

TELEPHONE : 33(0) 3 21 87 77 77
FAX : 33(0) 3 21 87 77 09

EMERGENCY TELEPHONES : 33 (0) 3 21 87 77 77

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances classified as dangerous for the health by european directive 67/548/EEC and amendments :

INGREDIENT NAME :	CAS No.:	CONTENT	SYMBOL	RISK :
CI Solvent Yellow 47	71077-14-0	0 < < 7%	Xn	R22
CI Solvent Blue 38	1328-51-4	0 < < 8%	Xn	R22
CI Solvent Violet 9	467-63-0	0 < < 2%	Xn	R22
2-Butoxyethanol	111-76-2	4 < < 5%	Xn, Xi	R20/21/22, R37
Propyl alcohol	71-23-8	10 < < 20%	F, Xi	R11, R41, R67
Ethyl Alcohol	64-17-5	60 < < 75%	F	R11

3. HAZARDS IDENTIFICATION

F : R 11 Highly flammable.
Xi : R41

In normal conditions of use, the ink contained in the marker is not classified hazardous for the health.

4. FIRST AID MEASURES

GENERAL : Summary of first aid is as follows :

INHALATION : Remove victim immediately from source of exposure. Get medical attention. Perform artificial respiration if breathing has stopped.

INGESTION : DO NOT induce vomiting. Get medical attention immediately.

SKIN : Wash skin thoroughly with soap and water. Continue to rinse for several minutes. Get medical attention promptly if symptoms occur after washing.

EYES : Rinse the eye with water immediately. Continue to rinse for several minutes. Contact physician if irritation persists.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA :
Water, CO2, powder.

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SPECIAL FIRE FIGHTING PROCEDURES :

Use approved self-contained breathing apparatus and other protective equipment

6. ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS IN SPILL :**

Bulk releases are not anticipated under normal conditions.

PRECAUTIONS TO PROTECT ENVIRONMENT :

None known. Treat as a highly flammable liquid.

SPILL CLEAN-UP METHODS :

Contain and absorb liquid. Take contact with specialist to clean the residues.

7. HANDLING AND STORAGE**USAGE PRECAUTIONS :**

Keep away from heat, sparks and open flame.

STORAGE PRECAUTIONS :

Keep in cool, dry, ventilated storage and closed containers. Keep away from heat, sparks and open flame.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**EXPOSURE LIMITS :****VME (Ethyl Alcohol) :**Brief value : 9500 mg/m³, 5000 ml/m³Long-term value : 1900 mg/m³, 1000 ml/m³**OTHER PROTECTION :**

Under normal conditions of use specific protection is not needed.

HYGIENIC WORK PRACTICES :

Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :	Liquid	
COLOUR :	Varying	
ODOUR/TASTE :	Alcohol odour	
SOLUBILITY IN WATER :	soluble in water	
BOILING POINT :	78°C (173°F)	pressure: 760 mmHg
DENSITY/SPECIFIC GRAVITY (g/ml) :	0.82 – 0.88	temperature: 20°C (68°F)
VAPOUR PRESSURE (mmHg) :	44	temperature: 20°C (68°F)
EVAPORATION RATE (n-butyl acetate : 1) :	2.3	
FLASH POINT (°C) :	13°C (55°F)	closed cup

10. STABILITY AND REACTIVITY**STABILITY :**

Normally stable

CONDITIONS TO AVOID :

Avoid heat, flames and other sources of ignition.

HAZARDOUS POLYMERIZATION :

Will not polymerize.

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MATERIALS TO AVOID :

Strong oxidizing agents. Strong reducing agents.

HAZARDOUS DECOMP. PRODUCTS :

Carbon oxides and various hydrocarbons formed when burned.

11. TOXICOLOGICAL INFORMATION**For the marker using :**

Under normal condition of use, the risk phrase R 41 is not applicable in « hazards identification » paragraph 3 because the ink is contained in the fiber reservoir of a small capacity marker.

For the Ink manipulation :**EYE :**

R 41 Risk of serious damage to eyes

ROUTE OF ENTRY :

Eye contact

12. ECOTOXICOLOGICAL INFORMATION**2-butoxyethanol :**

LC 50/ 48h = 1880 mg/l (fish)

13. DISPOSAL CONSIDERATIONS**PACKAGING DISPOSAL METHODS :**

Dispose of in accordance with Local Authority requirements.

PREPARATION DISPOSAL METHODS :

Dispose of in accordance with Local Authority requirements.

14. TRANSPORT INFORMATION

The transport regulations concern ink and not markers containing this ink.

LABEL FOR CONVEYANCE :**ADR ROAD TRANSPORT :**

UN No. ROAD : 1263
ADR CLASS No. : Class 3
ADR CLASS : 3
HAZARD No. (ADR) : 33 Highly flammable liquid (flash-point below 23°C).
PROPER SHIPPING NAME : PAINT, n.o.s., Class 3, 3^b, in limited quantities

IMDG SEA TRANSPORT :

UN No. SEA : 1263
IMDG CLASS : 3.2
MARINE POLLUTANT : N/A.
PROPER SHIPPING NAME : PAINT, n.o.s., in limited quantities

IATA AIR TRANSPORT :

UN No., AIR : 1263
ICAO CLASS : 3
AIR PACK GR. : II
PROPER SHIPPING NAME : PAINT, n.o.s.,

15. REGULATORY INFORMATION

The labelling regulation is not applicable for the marker. Only ink in tank is concerned :

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SYMBOL AND INDICATION OF DANGER : F, Highly flammable
Xi: R41

RISK PHRASES : R 11, R 41

SAFETY PHRASES : S 26, S 39

EU DIRECTIVES : Dangerous Substances Directive 67/548/EEC as amended.
General Preparations Directive 88/379/EEC

16. OTHER INFORMATION

INFORMATION SOURCES : Material Safety Data Sheets, Misc. suppliers.

The information contained herein is believed to be correct and corresponds to the latest state of scientific and technical knowledge. However, no warranty is made, either express or implied, regarding its accuracy or the results obtained from the use of such information.

The user is responsible for taking the necessary measures to meet the requirements of laws and regulations in force.