

Material Safety Data Sheet

Issuing Date 18-Sep-2013

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Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BIC Magic Markers Dry Erase

Recommended Use Marking Instrument

Supplier Address

BIC Corporation
One BIC Way, Suite 1
Shelton, CT 06484
TEL: 203-783-2000

BIC Inc.
155 Oakdale Rd.
Toronto, Ontario
Canada
M3N 1W2
TEL: 416-742-9173

Emergency Telephone Number 203-783-2412

2. HAZARDS IDENTIFICATION

Emergency Overview

The product contains no substances which at their given concentration and intended use are considered to be hazardous to health

Appearance Varies **Physical State** Solid containing liquid ink reservoir. **Odor** Alcohol

OSHA Regulatory Status

Information listed in Sections 3, 11, and 15 is consistent with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and has also been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This product is not a toxic or hazardous substance as defined by 16 CFR 1500.3 of the Federal Hazardous Substances Act (FHSA) and as such does not require acute or chronic hazard labeling. The ink in this writing instrument has been approved by board certified toxicologists under the WIMA (Writing Instrument Manufacturer's Association) certification program and/or the ACMI (Art & Creative Materials Institute) certification programs. Reviews were conducted using guidelines set forth by the CPSC (Consumer Product Safety Commission). Inks are certified as compliant under ASTM D-4236.

Hazards described below are for the marker. Significant exposure to ink is not expected under normal usage and conditions.

Potential Health Effects

Principle Routes of Exposure Inhalation. Skin contact. Eye contact.

Acute Toxicity

Eyes May cause slight irritation.
Skin None known.
Inhalation No known hazard by inhalation.
Ingestion Ingestion may cause stomach discomfort.

Chronic Effects

Avoid repeated exposure. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Aggravated Medical Conditions	None known.
Interactions with Other Chemicals	Use of alcoholic beverages may enhance toxic effects.
Environmental Hazard	See Section 12 for additional Ecological Information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This MSDS represents the component and hazards of an entire line of products. Each individual product may not contain all the hazardous ingredients listed below.

Chemical Name	CAS-No	Weight %
Ethanol	64-17-5	60-100
Isopropyl alcohol	67-63-0	15-40

The listing represents the ink compound of an entire line of products. Each individual ink may not contain all the ingredients listed above.

4. FIRST AID MEASURES

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Wash skin with soap and water.
Inhalation	Move victim to fresh air.
Ingestion	Clean mouth with water and afterwards drink plenty of water. If symptoms persist, call a physician. Do not induce vomiting without medical advice.
Notes to Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Flammable/combustible material. (Liquid Ink only)			
Flash Point	55.4 °F / 13 °C (Liquid Ink only)			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Unsuitable Extinguishing Media	None			
Explosion Data				
Sensitivity to Mechanical Impact	None.			
Sensitivity to Static Discharge	None			
Protective Equipment and Precautions for Firefighters	Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire and/or explosion do not breathe fumes			
NFPA	Health Hazard 0	Flammability 1	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 0	Flammability 1	Physical Hazard 0	Personal Protection X

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition.
Environmental Precautions	Use absorbent to contain ink for proper disposal.
Methods for Containment	Use absorbent.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handling	No special requirements for writing instruments
Storage	Consult local fire code and insurance requirements for bulk storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	No special protective equipment required.
Hygiene Measures	None under normal use conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Varies.	Odor	Alcohol.
Odor Threshold	No information available.	Physical State	Solid containing liquid ink reservoir
pH	No information available.	Autoignition Temperature	No information available.
Flash Point	55.4 °F / 13 °C (Liquid Ink only)	Boiling Point/Boiling Range	78 °C (Liquid Ink only)
Decomposition Temperature	No information available.	Flammability Limits in Air	No information available.
Melting Point/Range	No information available.	Water Solubility	Miscible with water (Liquid Ink only)
Specific Gravity	0.82-0.88 @ 20 °C (liquid ink only)	Evaporation Rate	No information available.
Solubility	No information available.	Vapor Density	No data available.
Vapor Pressure	No data available.		
Viscosity	6.0-9.0 mPa*s/25 °C (Liquid Ink only)		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	None known based on information supplied.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides.
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

The marker product does not present an acute toxicity hazard based on known or supplied information.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4 h
Isopropyl alcohol	= 4396 mg/kg (Rat)	12800 mg/kg (Rat) 12870 mg/kg (Rabbit)	72.6 mg/L (Rat) 4 h

Chronic Toxicity

Chronic Toxicity

Avoid repeated exposure. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol	A3	Group 1	Known	X
Isopropyl alcohol		Group 3		X

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3: Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Mutagenic Effects

There are no mutagens in this product at levels that are deemed hazardous as evaluated by a board certified toxicologist.

Target Organ Effects

None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects of liquid ink components. The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Ethanol		LC50 96 h: 12.0 - 16.0 mL/L static (Oncorhynchus mykiss) LC50 96 h: > 100 mg/L static (Pimephales promelas) LC50 96 h: 13400 - 15100 mg/L flow-through (Pimephales promelas)	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50 48 h: 9268 - 14221 mg/L (Daphnia magna) EC50 24 h: = 10800 mg/L (Daphnia magna) EC50 48 h: = 2 mg/L Static (Daphnia magna)
Isopropyl alcohol	EC50 96 h: > 1000 mg/L (Desmodesmus subspicatus) EC50 72 h: > 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 11130 mg/L static (Pimephales promelas) LC50 96 h: = 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1400000 µg/L (Lepomis macrochirus)		EC50 48 h: = 13299 mg/L (Daphnia magna)
Chemical Name		Log Pow		
Ethanol		-0.32		
Isopropyl alcohol		0.05		

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods The liquid ink is a flammable material. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Ethanol	Toxic Ignitable
Isopropyl alcohol	Toxic Ignitable

14. TRANSPORT INFORMATION

Note: Will be shipped as LTD QTY.

DOT

Proper shipping name Printing Ink
Hazard Class 3
Description UN1210, Printing Ink, 3, PG II

TDG

Proper Shipping Name Printing Ink
Hazard Class 3
Description UN1210, Printing Ink, 3, PG II

MEX

Proper Shipping Name Printing Ink
Hazard Class 3
Description UN1210, Printing Ink, 3, PG II

IMDG/IMO

UN-Number UN1210
Proper Shipping Name Printing Ink
Hazard Class 3
Packing Group II
EmS No. F-E, S-D
Description UN1210, Printing Ink, 3, PG II

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Ethanol	X	X	X		
Isopropyl alcohol	X	X	X		X
Carbon black	X	X	X	X	X

International Regulations**Mexico - Grade**

Serious risk, Grade 3

Chemical Name	Carcinogen Status	Exposure Limits
Ethanol		Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m ³
Isopropyl alcohol		Mexico: TWA 400 ppm Mexico: TWA 980 mg/m ³ Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Non-controlled

Canadian National Pollutant Release Inventory (NPRI)

Component	NPRI
Isopropyl alcohol 67-63-0 (15-40)	X

Legend

X - Listed

16. OTHER INFORMATION

Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
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General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet