

Material Safety Data Sheet

Issuing Date 8-Oct-2010

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BIC Great Erase Dry Erase Marker (all colors and styles)

Recommended Use Marking Instrument

Supplier Address

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

Company Emergency Phone Number 203-783-2412

2. HAZARDS IDENTIFICATION

Emergency Overview

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

Appearance Varies. **Physical State** Solid. **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 CRF 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.

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 %
n-Propyl alcohol	71-23-8	40-70
Ethanol	64-17-5	40-70

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. Containers may explode when heated.
Flash Point	55.4°F (Liquid Ink) / 13°C
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO ₂ , water spray or regular foam.
Unsuitable Extinguishing Media	CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use a solid water stream as it may scatter and spread fire.
Explosion Data	
Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None
Specific Hazards Arising from the Chemical	Flammable
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 -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition.
Environmental Precautions	No special environmental precautions required.
Methods for Containment	Not applicable.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handling No special requirement for writing instruments.

Storage No special requirement for writing instrument.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
n-Propyl alcohol 71-23-8	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m ³	IDLH: 800 ppm TWA: 500 mg/m ³ TWA: 200 ppm STEL: 250 ppm STEL: 625 mg/m ³
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

Immediately Dangerous to Life or Health.

Engineering Measures Showers
Eyewash stations
Ventilation systems

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
pH	No information available.	Autoignition Temperature	No information available.
Flash Point	55.4 °F (Liquid Ink) / 13 °C	Boiling Point/Range	78 °C / 172.4 °F (Liquid Ink)
Decomposition Temperature	No information available.	Explosion Limits	No information available.
Melting Point/Range	No information available.	Water Solubility	Miscible with water
Flammability Limits in Air	No information available.	Evaporation Rate	No information available
Specific Gravity	0.82-0.88 @ 20 °C	Vapor Density	No data available.
Solubility	No information available		
Vapor Pressure	No data available.		
VOC Content (%)	No data available.		

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 Product does not present an acute toxicity hazard based on known or supplied information.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
n-Propyl alcohol	1870 mg/kg (Rat)		13548 ppm (Rat) 4 h

Chronic Toxicity

Chronic Toxicity No chronic effects are expected.

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

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)
n-Propyl alcohol		LC50: 4480 mg/L Pimephales promelas 96 h flow-through	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	EC50: 3642 mg/L Daphnia magna 48 h EC50: 3339 - 3977 mg/L Daphnia magna 48 h Static
Ethanol		LC50: 12.0-16.0 ml/L Oncorhynchus mykiss 96 h static LC50: >100 mg/L Pimephales promelas 96 h static LC50: 13400-15100 mg/L Pimephales promelas 96 h flow-through	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	LC50: 9268 - 14221 mg/L Daphnia magna 48 h EC50: 10800 mg/L Daphnia magna 24 h EC50: 2 mg/L Daphnia magna 48 h Static

Chemical Name	Log Pow
n-Propyl alcohol	0.34
Ethanol	-0.32

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261) 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
n-Propyl alcohol	Toxic Ignitable
Ethanol	Toxic Ignitable

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

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

SARA 313

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	Yes
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

The presence of carcinogens or developmental toxins in the products' ink does not result in significant exposure under Proposition 65.

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
n-Propyl alcohol	X	X	X		X
Ethanol		X			X

