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TB25729

Material Safety Data Sheet

Issuing Date 8-Oct-2010

Revision Date

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name BIC Great Erase BOLD 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** Characteristic

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 %
Butyl acetate	123-86-4	60-100
4-methylpentan-2-one	108-10-1	15-40

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	60.8 °F (Liquid Ink) / 16 °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.
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.

NFPA	Health Hazard 0	Flammability 1	Instability 0	Physical and Chemical Hazards -
HMS	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 instruments.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4-methylpentan-2-one 108-10-1	STEL: 75 ppm TWA: 20 ppm	TWA: 100 ppm TWA: 410 mg/m ³ (vacated) TWA: 50 ppm (vacated) TWA: 205 mg/m ³ (vacated) STEL: 75 ppm (vacated) STEL: 300 mg/m ³	IDLH: 500 ppm TWA: 50 ppm TWA: 205 mg/m ³ STEL: 75 ppm STEL: 300 mg/m ³
Butyl acetate 123-86-4	STEL: 200 ppm TWA: 150 ppm	TWA: 150 ppm TWA: 710 mg/m ³ (vacated) TWA: 150 ppm (vacated) TWA: 710 mg/m ³ (vacated) STEL: 200 ppm (vacated) STEL: 950 mg/m ³	IDLH: 1700 ppm 10% LEL TWA: 710 mg/m ³ TWA: 150 ppm STEL: 200 ppm STEL: 950 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 None required under normal usage.

Hygiene Measures None under normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Varies.	Odor	Characteristic.
Odor Threshold	No information available.	Physical State	Solid
pH	No information available.	Autoignition Temperature	No information available.
Flash Point	60.8 °F (Liquid Ink) / 16 °C	Boiling Point/Range	115 °C / 239 °F (Liquid Ink)
Decomposition Temperature	No information available.	Explosion Limits	No information available.
Melting Point/Range	No information available.	Water Solubility	Insoluble in water.
Flammability Limits in Air	No information available.	Evaporation Rate	No information available.
Specific Gravity	0.82 @ 20 °C	Vapor Density	No data available.
Solubility	No information available.		
Vapor Pressure	No data available.		
VOC Content (%)	No information 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
4-methylpentan-2-one	2080 mg/kg (Rat)	16000 mg/kg (Rabbit)	8.2 mg/L (Rat) 4 h
Butyl acetate	10768 mg/kg (Rat)	17600 mg/kg (Rabbit)	390 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)
Butyl acetate	EC50: 674.7 mg/L Desmodesmus subspicatus 72 h	LC50: 17-19 mg/L Pimephales promelas 96 h flow-through LC50: 100 mg/L Lepomis macrochirus 96 h static LC50: 62 mg/L Leuciscus idus 96 h static	EC50 = 70.0 mg/L 5 min EC50 = 82.2 mg/L 15 min EC50 = 959 mg/L 18 h EC50 = 98.9 mg/L 30 min	EC50: 72.8 mg/L Daphnia magna 24 h
4-methylpentan-2-one	EC50: 400 mg/L Pseudokirchneriella subcapitata 96 h	LC50: 496-514 mg/L Pimephales promelas 96 h flow-through	EC50 = 79.6 mg/L 5 min	EC50: 170 mg/L Daphnia magna 48 h

Chemical Name	Log Pow
Butyl acetate	1.81
4-methylpentan-2-one	1.19

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.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
4-methylpentan-2-one - 108-10-1		Included in waste stream: F039		U161

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

Chemical Name	California Hazardous Waste
Butyl acetate	Toxic

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
4-methylpentan-2-one	108-10-1	15.51	1.0

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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Butyl acetate	5000 lb			X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Butyl acetate	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ
4-methylpentan-2-one	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

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
4-methylpentan-2-one	X	X			X
Butoxyethanol	X	X			X
Butyl acetate	X	X			X

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.

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