

7-5013 97-3736  
 97-4092 91-185  
 61-303A 97-4848  
 Material Safety Data Sheet 91-186  
 Required under MSDS Safety and Health Regulations  
 for Hazardous Substances (29 CFR 1910.1200)

U.S. Department of Labor  
 Occupational Safety and Health Administration

OSHA Form 1219  
 Emergency Care Only

Section I

Manufacturer's Name: Magic Marker Industries, Inc.

Emergency Telephone No.  
 609-392-3071

Address (Number, Street, City, State, and ZIP Code):  
 467 Calhoun Street

Chemical Name  
 and Synonyms

Trenton, NJ 08618

Trade Name  
 and Synonyms

Water Based Markers

Chemical  
 Family

Aqueous Solution

Section II - Hazardous Ingredients

Paints, Preservatives, and Solvents	% TLV		Other Alloys and Metallic Coatings	% TLV	
	TLV	Other		TLV	Other
Pigments / Dyes	5		Base Metal		
Colorants			Acids		
Vehicles			Inorganic Coatings		
Solvents	91		Flux Metal Plus Coating or Core Flux		
Additives	0.5		Others		
Others					

Hazardous Mixtures of Other Liquids, Solids or Gases

		% TLV	Other

Section III - Physical Data

Boiling Point (°F)	212°F	Specific Gravity (H <sub>2</sub> O=1)	
Vapor Pressure (mm Hg)	760	Percent Volatils by Volume (%)	
Vapor Density (Air=1)	>1	Evaporation Rate	
Solubility in Water	100% Complete		

Appearance and Odor: Clear colored watery liquid; no odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	230°F	Flammable Limits	LeI	UeI
Extinguishing Media	NA		NA	NA
Special Fire Fighting Procedures				

Unusual Fire and Explosion Hazards: None

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Health Hazard Data

Permissible Exposure Limit (PEL) Value

NA

Effects of Overexposure

Mild skin and eye irritation

Emergency First Aid Procedures

Eye - flush with cold water

Ingestion - over exposure; induce vomiting, call physician

Skin - wash with soap and water

Inhalation - none

Section VI - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Hazardous Decomposition Products

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VII - Spill or Leak Procedures

Steps to be Taken in Case Material is Released or Spilled

Wipe up immediately; clean with soap and water.

Waste Disposal Method

Acceptable disposal methods.

Section VIII - Special Protection Information

Respiratory Protection (Specify Type)

Ventilation	Local Exhaust	Special
	Mechanical (General)	

Protective Gloves

NA

Eye Protection

Other Protective Equipment

Section IX - Special Precautions

Precautions to be Taken in Handling and Storage

None

Other Precautions

MATERIAL SAFETY DATA SHEET

MSDS# A042

\*\*\*\*\* SECTION 1 - IDENTIFICATION \*\*\*\*\*

IDENTITY: B-E PAINTSTIK -- ALL COLORS

MANUFACTURER  
MARKAL COMPANY  
250 N. WASHTENAW AVE.  
CHICAGO, IL, 60612

EMERGENCY TELEPHONE NO. 312-826-1700  
INFORMATION TELEPHONE NO. 312-826-1700  
DATE PREPARED 09/30/89

LABELING

HMIS: 010 NFPA: 110 WHMIS(CANADA): NONE  
EPA HAZARDS: NONE D.O.T.:  
BILL OF LADING: U.P.S.:

\*\*\*\*\* SECTION 2 - HAZARDOUS INGREDIENTS \*\*\*\*\*

INGREDIENT	C.A.S.#	OSHA PEL	ACGIH TLV	SUPERFUND RQ	%
NO INGREDIENTS CONSIDERED HAZARDOUS UNDER OSHA COMMUNICATION STANDARD 29CFR1910-1200					

SARA TITLE 3, SEC. 313  
RED ONLY: CONTAINS AN INSOLUBLE BARIUM COMPOUND. PRODUCT CONTAINS 1% AS ELEMENTAL BARIUM.

\* THE ABOVE TOXIC CHEMICAL(S) ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372.

\*\*\*\*\* SECTION 3 - PHYSICAL / CHEMICAL CHARACTERISTICS \*\*\*\*\*

BOILING POINT: N.A. SPECIFIC GRAVITY(H<sub>2</sub>O=1): N.A.  
VAPOR PRESSURE(mmHg): N.A. MELTING POINT: N.A.  
VAPOR DENSITY(AIR=1): N.A. EVAP. RATE(butyl acetate=1): N.A.  
SOLUBILITY IN WATER: INSOLUBLE  
APPEARANCE: SOLID MARKER ODOR: MILD ODOR

\*\*\*\*\* SECTION 4 - FIRE AND EXPLOSION HAZARD DATA \*\*\*\*\*

FLASH POINT (method used): APPROX. 500 deg F.  
FLAMMABLE LIMITS - LEL: N.A. UEL: N.A.  
EXTINGUISHING MEDIA: WATER, CARBON DIOXIDE, FOAM, DRY CHEMICAL  
SPECIAL FIRE FIGHTING PROCEDURES: NONE  
UNUSUAL FIRE AND EXPLOSION HAZARDS: N.A.

\*\*\*\*\* SECTION 5 - REACTIVITY DATA \*\*\*\*\*

STABILITY: STABLE  
CONDITIONS TO AVOID: N.A.  
INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZERS  
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE IF BURNED  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITIONS TO AVOID: NONE

\*\*\*\*\* SECTION 6 - HEALTH HAZARD DATA \*\*\*\*\*

ROUTES OF ENTRY: INHALATION? NO SKIN? NO INGESTION? YES  
HEALTH HAZARDS: NONE  
CARCINOGENICITY: NTP? NO IARC? NO OSHA? NO  
SIGNS AND SYMPTOMS OF EXPOSURE: NONE  
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE  
EMERGENCY AND FIRST AID PROCEDURES: USE GOOD INDUSTRIAL HYGIENE AND WASH HANDS AFTER USE.