



Bradley Products, Inc.

MATERIAL SAFETY DATA SHEET

Product: Davidson Marking System® Black Dye all sizes

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Dear Customer:

This MSDS (Material Safety Data Sheet) contains the latest information relating to our product. Please discontinue using any former Bradley Products, Inc. MSDS for this product. The format of this MSDS has changed substantially from previous versions and has been modified to follow the ANSI recommended 16 section format. It continues to be prepared in accordance with the OSHA Hazard Communication Standard (29CFR 1910.1200). Please:

- Review this MSDS and ensure you understand and comply with its content.
- Inform all employees and other users of the information contained in this MSDS before handling the product.
- Bradley Products updates MSDSs as needed. The Content Effective date represents the last change in the product formula. The Verified date represents the date the MSDS content was verified as accurate. Newly modified MSDSs should be forwarded to all downstream users.

This MSDS contains information which may be helpful for you to comply with certain regulations and laws. It is not all inclusive information and could not be. Only you are in a position to determine what legal and other requirements are associated with the use of this product in your particular process and operation. It is your obligation to understand and comply with all information contained in this MSDS as well as all applicable laws, rules and regulations relating to your handling, use, storage and processing of this material.

If you want additional copies of this MSDS, we are happy to provide them to you, at no charge, via mail, fax, e-mail, or you can download a PDF copy from our web site. If you have questions or desire additional information in the handling, storage, use, or disposal of this product, please contact us.

Sincerely,
Bradley Products, Inc.

Important Note: The Davidson Marking System® dyes, manufactured by Bradley Products, Inc. are not intended for use on a living patient. These dyes are only intended for use on excised tissues.

The original margin marking system for a variety of applications requiring orientation of tissue specimens in medical laboratories.





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Content Effective: January 13, 2009 Verified: June 1, 2014

MSDS # 00103, Page 1 of 3

Bradley Products, Inc. encourages safe handling of this product. To promote safe handling, each recipient should: 1) Notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; 2) Furnish this same information to each of its customers for the product; and 3) Request its customers to notify their employees, customers and other users of the product of this information.

Section I – Product and Company Information

1.1 PRODUCT IDENTIFICATION

Product: Davidson Marking System® Black Dye all sizes

HMIS Ratings: Health - 1 Flammability - 0 Reactivity - 0

1.2 COMPANY IDENTIFICATION

Bradley Products, Inc.

P.O. Box 201405

Bloomington, MN 55420

e-mail: dms@bradleyproducts.com

web site: www.bradleyproducts.com

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Section II – Composition – Right to Know

Product	CAS #	Product	CAS #
Water	7732-18-5	Pigments & Dyes	proprietary
Ammonium Hydroxide	1336-21-6	*contains Carbon Black	
resins and additives	proprietary	*See IARC Info below	

Section III – Hazardous Identification and Health Effects

3.1 EMERGENCY OVERVIEW

Appearance: Black

Physical State: Liquid

Odor: Slight ammonia odor.

Hazards: Irritating to skin and eyes.

Inhalation may cause difficulty in breathing and irritation to respiratory tract.

Lung disorders/dermatitis from prolonged exposure.

3.2 POTENTIAL HEALTH EFFECTS

Effects of Single Acute Overexposure

Inhalation: Inhalation of ammonia vapors may cause difficulty in breathing and irritation of respiratory tract.

Eye Contact: Contact with eyes may result in an irritation.

Skin Contact: Contact with skin may result in an irritation.

Ingestion: May cause nausea.

3.3 POTENTIAL ENVIRONMENTAL EFFECT

See Section XV - Regulatory Information

Section IV – First Aid Procedures

4.1 INHALATION

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

4.2 EYE CONTACT

Immediately wash eyes with running water for 15 min. If irritation develops, consult a physician.

4.3 SKIN CONTACT

Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, consult a physician.

4.4 INGESTION

Induce vomiting by giving several glasses of water. Get immediate medical attention.

4.5 NOTES TO PHYSICIAN

No information currently available.

Bradley Products, Inc.
MATERIAL SAFETY DATA SHEET
Product: Davidson Marking System® Black Dye all sizes

Content Effective: January 13, 2009 Verified: June 1, 2014

MSDS # 00103, Page 2 of 3

Section V – Fire and Explosion Data

5.1 FLAMMABLE PROPERTIES

Flash Point (Test Method): N/A
Autoignition Temp: N/A
Flammability Limits in Air (% by Vol): Lower: N/A Upper: N/A

5.2 EXTINGUISHING MEDIUM

Use water spray, foam, carbon dioxide or dry chemical extinguishing media.

5.3 EXTINGUISHING MEDIUM TO AVOID

No information currently available.

5.4 SPECIAL FIREFIGHTING PROCEDURES

No information currently available.

5.5 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Firefighters should be equipped with self-contained breathing apparatus and full protective gear.

5.6 UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep closed containers cool. Exposure of closed containers to excessive heat may cause disruptive pressure.

5.7 HAZARDOUS DECOMPOSITION PRODUCTS

No information currently available.

Section VI – Accidental Spill / Leak Procedures

Steps to be taken if material is released or spilled:

Contain in absorbent material and transfer to proper container for disposal.

Personal Precautions:

See Section VIII - Special Protection

Environmental Precautions:

No information currently available.

Section VII – Handling and Storage

7.1 HANDLING

General Handling

Avoid getting in eyes. Due to permanent coloring, avoid contact with skin or clothing. Do not ingest or swallow.
Wash thoroughly with soap and water after handling.

Ventilation

General room ventilation is expected to be satisfactory if this material is kept in covered equipment or containers.
Local exhaust use is recommended.

7.2 STORAGE

Store in closed containers. Store containers in diked areas.

Section VIII – Exposure Controls and Personal Protection

8.1 EXPOSURE LIMITS

No information currently available.

8.2 PERSONAL PROTECTION

Respiratory Protection: NIOSH approved respirator or dust mask, if needed (contains small amounts of ammonia).

Eye Protection: Safety goggles for splash protection.

Protective Clothing: Coveralls and impervious work gloves to prevent skin contact.

Ventilation: Local and general exhaust.

Other: N/A

8.3 ENGINEERING CONTROLS

No information currently available.

Section IX – Physical and Chemical Properties

Physical State:	Liquid	Freezing Point:	ND
Appearance:	Black	Specific Gravity (g/ml):	1.05-1.06
pH:	8.5-9.5	Vapor Pressure:	17 at 20 C for water
Solubility in Water:	Complete	Vapor Density:	ND
Odor:	Ammonia	Evaporation Rate:	Negligible
Volatiles By Weight:	N/A	Melting Point	ND
Boiling Point:	100°		

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MSDS # 00103, Page 3 of 3

Section X – Stability and Reactivity

10.1 STABILITY / INSTABILITY

This product is stable.

Conditions to Avoid: No information currently available.

Chemical Incompatibility: Strong oxidizing agents and mineral acids.

10.2 HAZARDOUS POLYMERIZATION

Does not occur.

Hazardous Decomposition Products: CO & other organic compounds may be released during combustion.

Conditions to Avoid: No information currently available.

10.3 INHIBITORS / STABILIZERS

No information currently available.

OTHER:

Corrosive to Metal: N/A

Oxidizer: N/A

Section XI – Toxicological Information

Chemical Listed as Carcinogen or Potential Carcinogen: None

IARC Monographs: No - Carbon Black is listed as a possible carcinogen to humans - IARC Group 2B.

National Toxicology Program: No

OSHA Regulated: No

Section XII – Ecological Information

See Section XI – Toxicological Information

Section XIII – Disposal Considerations

13.1 WASTE DISPOSAL METHOD

Dispose in accordance with Federal, State, and Local regulations.

Dispose empty containers by crushing or whatever means will prevent unauthorized reuse.

Contain in absorbent material and transfer to proper container for disposal.

Section XIV – Transport Information

Additional Information:

Non Hazardous Ink, Non DOT Regulated, Not IATA regulated, None, N/A

Section XV – Regulatory Information

See Section XI – Toxicological Information.

Section XVI – Other Information

16.1 AVAILABLE LITERATURE AND BROCHURES

Additional product safety information on this product may be available and may be obtained by calling Bradley Products, Inc. or visit the web site at www.bradleyproducts.com

16.2 SPECIFIC HAZARD RATING SYSTEM

No information currently available.

16.3 RECOMMENDED USES AND RESTRICTIONS

For industry use only.

16.4 REVISION

Version: 2

Revision: January 13, 2009

Verified: June 1, 2014

While Bradley Products, Inc. (BPI) believes the data set forth herein are accurate as of the date hereof, BPI makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon, such data are offered solely for your consideration, investigation and verification. Since the use of this information and the conditions of the use of the product are not under the control of BPI, it is the user's obligation to determine conditions of safe use of the product.