



# Bradley Products, Inc.

Manufacturers of  
**The Davidson Marking System<sup>®</sup>**

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Dear Customer:

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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 when substantial new information is obtained. 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<sup>®</sup> 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  
tissue marking system  
for a variety of  
applications  
requiring the  
orientation of  
tissue specimens in  
medical laboratories.*



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



Effective Date: March 3, 2010

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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® Green 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

Phone: 952-881-1430  
 Toll-free: 800-325-7785  
 Fax: 952-881-1873

e-mail: [dms@bradleyproducts.com](mailto:dms@bradleyproducts.com)  
 web site: [www.bradleyproducts.com](http://www.bradleyproducts.com)

**Section II – Composition – Right to Know**

<u>Product</u>	<u>CAS #</u>	<u>Product</u>	<u>CAS #</u>
Water	7732-18-5	ammonium hydroxide	1336-21-6
Pigment Green	proprietary	surfactant	proprietary

**Section III – Hazardous Identification and Health Effects**

**3.1 EMERGENCY OVERVIEW**

**Appearance:** Green  
**Physical State:** Liquid  
**Odor:** Ammonia  
**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:** Eye Irritant. Can cause redness, irritation.  
**Skin Contact:** Contact with skin may result in an irritation.  
**Ingestion:** Harmful if ingested. May cause nausea, diarrhea, abdominal cramps.

**Chronic, Prolonged or Repeated Overexposure**

Repeated and prolonged exposure may result in lung disorders and dermatitis. This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probably or suspected human carcinogens.

**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**

If swallowed, dilute with water and induce vomiting. Never give fluids or induce vomiting if victim is unconscious or having convulsions. Get immediate medical attention.

**4.5 NOTES TO PHYSICIAN**

Treat symptomatically. No specific antidote available.

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**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 fog, foam, carbon dioxide or dry chemical extinguishing media.

**5.3 EXTINGUISHING MEDIUM TO AVOID**

No information currently available.

**5.4 SPECIAL FIREFIGHTING PROCEDURES**

Firefighters should be equipped with turnout gear and wear full protective clothing.

**5.5 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS**

Firefighters should be equipped with self-contained breathing apparatus.

**5.6 UNUSUAL FIRE AND EXPLOSION HAZARDS**

Keep closed containers cool. Exposure of closed containers to excessive heat may cause disruptive pressure. One ingredient in this product will burn under fire conditions.

**5.7 HAZARDOUS DECOMPOSITION PRODUCTS**

Smoke, oxides of carbon.

**Section VI – Accidental Spill / Leak Procedures**

**Steps to be taken if material is released or spilled:**

Contain and collect spilled product. Dispose in accordance with Federal, State, and Local regulations. Dispose of empty containers by crushing or whatever means will prevent unauthorized reuse.

**Personal Precautions:**

See Section VIII - Special Protection

**Environmental Precautions:**

Do not flush to drain.

**Section VII – Handling and Storage**

**7.1 HANDLING**

**General Handling**

Avoid getting in eyes. Avoid breathing vapors or mists. Due to permanent coloring, avoid contact with skin or clothing. Do not ingest or swallow. Wash thoroughly with soap and water after handling. Provide adequate ventilation when accessing or working with open containers.

**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:** Chemical goggles/safety glasses.  
An eye wash station should be available.

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

**Ventilation:** Use local exhaust.

**Other:** N/A

**8.3 ENGINEERING CONTROLS**

Use general area dilution/exhaust ventilation.

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**Section IX – Physical and Chemical Properties**

Physical State:	Liquid	Freezing Point:	ND
Appearance:	Green, semi-thick	Specific Gravity (g/ml):	1.3
pH:	8.5-9.5	Vapor Pressure:	ND
Solubility in Water:	Water Dispersible	Vapor Density:	ND
Odor:	Ammonia	Evaporation Rate:	ND
Volatiles By Weight:	45%	Melting Point	ND
Boiling Point:	ND		

**Section X – Stability and Reactivity**

**10.1 STABILITY / INSTABILITY**

This product is stable.

**Conditions to Avoid:** N/A

**Chemical Incompatibility:** N/A

**Section XI – Toxicological Information**

See Section XV – Regulatory Information

**Section XII – Ecological Information**

See Section XV – Regulatory 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.

**13.2 DISPOSAL CONSIDERATIONS**

See 13.1

**EPA Hazardous Waste – NO**

**Section XIV – Transport Information**

**14.1 U.S. DOT**

Not regulated.

**Section XV – Regulatory Information**

**TSCA INVENTORY**

This product is a mixture and as such is not required to be registered under the Federal Toxic Substance Control Act.

However, be assured that all of the chemical ingredients contained in this product have been submitted for inclusion in the TSCA inventory as required by law.

**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](http://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: March 3, 2003

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.