

# Davidson Marking System® Black Dye all sizes

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58, March 26, 2012 / Rules and Regulations



Davidson Marking System® Black Dye all sizes  
Safety Data Sheet (SDS)

Item #s 1013-3, 1101-3, 1163-3, 3408-3 and included in Set Item #s 2407, 2406, 2401, 2403, 1207, 1007 and included in sample sets of dyes

According to Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules and Regulations  
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BradleyProducts, Inc.

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 SDS 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 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier  
Product form : Mixture  
Product name : Davidson Marking System® Black Dye all sizes  
CAS No : Proprietary  
Product Code : 1013-3, 1101-3, 1163-3, 3408-3 and included in Set Item #s 2407, 2406, 2401, 2403, 1207, 1007 and included in sample sets of dyes

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Use of substance/mixture : Dispersion; Pigment Black 7 (CAS No. 1333-86-4)

1.3. Details of the supplier of the SDS (Safety Data Sheet)

Bradley Products, Inc.  
1700 W 94th Str  
Bloomington, MN 55431-1300 USA  
T 800-325-7785 T 952-881-1430 F 952-881-1873  
www.bradleyproducts.com / dms@bradleyproducts.com

1.4. Emergency telephone number  
Emergency telephone number : Bradley Products 800-325-7785

### SECTION 2: Hazard identification

2.1. Classification of the substance or mixture  
Classification (GHS-US) and Regulation (EC) No. 1272/2008 [CLP]  
Skin Irrit. 2 H315  
Eye Irrit. 2A H319

2.2. Label elements  
GHS-US Labeling and Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (GHS-US)



Signal word (GHS-US)  
Hazard statements (GHS-US)

: Warning  
: H315 - Causes skin irritation  
: H319 - Causes serious eye irritation  
: P264 - Wash hands thoroughly after handling  
: P280 - Wear eye protection, protective gloves, protective clothing  
: P302 + P352 - If on skin: Wash with plenty of water / ...  
: P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
: P321 - Specific treatment (see first aid instructions on this label)  
: P332 + P313 - If skin irritation occurs: Get medical advice / attention  
: P337 + P313 - If eye irritation persists: Get medical advice / attention  
: P362 - Take off contaminated clothing and wash before reuse

2.3. Other hazards  
No additional information available

2.4. Unknown acute toxicity (GHS-US)  
No data available

### SECTION 3: Composition/information on ingredients

3.1. Substances  
Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification (GHS-US)
Carbon Black	(CAS No) 1333-86-4	Proprietary		carc 2 H351
Ammonium hydroxide	(CAS No) 1336-21-6 (EC no) 215-647-6 (EC index no) 007-001-01-2	1 - 5	C; R34 N; R50	Skin Corr. 1B, H314 Aquatic Acute 1, H400
1,2-Propylene Glycol	(CAS No) 57-55-6 (EC no) 200-338-0	1 - 5	XI; R36	Eye Irrit. 2, H319

Specific concentration limits:

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Name	Product Identifier	Specific concentration limits: DSD/DPD	Specific concentration limits: CLP
Ammonium hydroxide	(CAS No) 1336-21-6 (EC no) 215-647-6 (EC index no) 007-001-01-2	(5=<C>10) Xi; R36/37/38 (C>= 10) C; R34	(C>=5) STOT SE 3, H335

### SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: If exposed or concerned, get medical attention / advice. Show this SDS (Safety Data Sheet) to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: remove to fresh air and keep at rest in a comfortable position for breathing.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	
Symptoms/injuries	: Causes serious eye irritation. Causes skin irritation.
Symptoms/injuries after inhalation	: May cause respiratory irritation. See Section 11.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.
4.3. Indication of any immediate medical attention and special treatment needed	
No additional information available	

### SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Water spray, Foam, Dry Chemical.
Unsuitable extinguishing media	: None known.
5.2. Special hazards arising from the substance or mixture	
Fire hazard	: Product is not flammable.
Explosion hazard	: Product is not explosive.
Reactivity	: Product is non-reactive under normal conditions of use, storage and transport.
5.3. Advice for firefighters	
Firefighting instructions	: Use cold water spray to cool fire-exposed containers to minimize risk of rupture.
Protection during firefighting	: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
General measures	: Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: For further information refer to section 8: "Exposure controls / personal protection"
6.2. Environmental precautions	
Notify authorities if product enters sewers or public waters. Prevent entry to sewers and public waters. Avoid release to the environment.	
6.3. Methods and material for containment and cleaning up	
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Wear suitable protective clothing. Soak up residue with an absorbent such as clay, sand or other suitable material. Product may create slip hazard.
6.4. Reference to other sections	
See Section 8	: Exposure controls and personal protection.

### SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	: Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving.
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	: Evacuate unnecessary personnel.

### SECTION 8: Exposure controls / personal protection

8.1. Control parameters		
Carbon Black (1333-86-4)		
USA ACGIH	ACHIG TWA (mg/m³)	3 mg/m³
USA ACGIH	ACGIH Remark	Bronchitis
USA NIOSH (Heubach)	NIOSH REL (TWA) (mg/m³)	0.1 mg/m³ (Carbon black in presence of Polycyclic aromatic hydrocarbons)
USA OSHA	OSHA PEL (TWA) (mg/m³)	3,5 mg/m³
USA IDLH (Heubach)	US IDLH (mg/m³)	1750 mg/m³
Ammonium hydroxide (1336-21-6)		
USA ACGIH	ACGIH Remark	OELs not established
USA OSHA	OSHA Remark	OELs not established
1,2-Propylene glycol (57-55-6)		
USA ACGIH	ACGIH Remark	OELs not established

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USA OSHA	OSHA Remark	OELs not established
8.2.	Exposure controls	
Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.	
Personal protective equipment	: Protective clothing. Protective goggles. Gloves.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glasses.	
Skin and body protection	: Wear clothing to minimize bodily exposure.	
Respiratory protection	: Wear approved mask.	
Other Information	: When using, do not eat, drink, or smoke.	



### SECTION 9: Physical and chemical properties

9.1.	Information on basic physical and chemical properties
Physical state	: liquid
Appearance	: black liquid
Color	: black
Odor	: ammonia-like
Odor threshold	: no data available
pH	: 8.5 - 9.5
Relative evaporation rate (butyl acetate-1)	: negligible
Melting point	: no data available
Freezing point	: no data available
Boiling point	: 100°C (212°F)
Flash point	: no data available
Self ignition temperature	: no data available
Decomposition temperature	: no data available
Flammability (solid, gas)	: no data available
Vapor pressure	: 17at 20°C for water
Relative vapor density at 20°C	: no data available
Relative density	: 1.05 - 1.06
Density	: 1.05 - 1.06
Solubility	: no data available
Log Pow	: no data available
Log Kow	: no data available
Viscosity, kinematic	: no data available
Viscosity, dynamic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Explosive limits	: no data available

### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

This product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

No additional information available.

#### 10.4. Conditions to avoid

No additional information available.

#### 10.5. Incompatible materials

Strong oxidizing agents. Mineral acids.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Organic compounds.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Carbon Black (1333-86-4)

LD50 oral rat : >15400 mg/kg

LD50 dermal rabbit : >3 g/kg

#### Ammonium hydroxide (1336-21-6)

LD50 oral rat : 350 mg/kg

ATE (oral) : 350,000 mg/kg

#### 1,2-Propylene glycol (51-55-8)

LD50 oral rat : 20000 mg/kg

LD50 dermal rabbit : 20800 mg/kg

ATE CLP (oral) : 20000,000 mg/kg bodyweight

ATE CLP (dermal) : 20800,000 mg/kg bodyweight

Skin corrosion / irritation : Causes skin irritation.

: pH: 8.5 - 9.5

Serious eye damage / irritation : Causes serious eye irritation.

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Respiratory or skin sensitization	: pH: 8,5 - 9,5
Repeated dose toxicity	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer,

<b>Carbon Black (1333-86-4)</b>	
IARC Group	2B - Possibly carcinogenic to humans (by inhalation) (not expected to be an issue in liquid form)
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation

### SECTION 12: Ecological information

12.1.	Toxicity	No additional information available.
12.2.	Persistence and degradability	No additional information available.
12.3.	Bioaccumulative potential	No additional information available
12.4.	Mobility in soil	No additional information available.
12.5.	Other adverse effects	No additional information available.

### SECTION 13: Disposal considerations

13.1.	Waste treatment methods	Do not discharge to public wastewater systems without permit of pollution control authorities.
	Waste disposal recommendations	: Dispose in a safe manner in accordance with local/state and national regulations.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / AND

14.1.	UN number	Not hazardous for transport.
14.2.	UN proper shipping name	
	US Dept of Transportation (DOT)	: Not regulated
	ADR	: Not regulated
	IMDG	: Not regulated
	IATA	: Not regulated
	AND	: Not regulated
	RID	: Not regulated
14.3.	Transport Hazard Classes and Additional Information	
	ADR Transport hazard classes (ADR)	: Not regulated
	IMDG Transport hazard classes (IMDG)	: Not regulated
	IATA Transport hazard classes (IATA)	: Not regulated
	ADN Transport hazard classes (ADN)	: Not regulated
	RID Transport hazard classes (RID)	: Not regulated
	Other information	: No supplementary information available
14.4.	Packing Group	
	Packing Group (ADR)	: Not regulated
	Packing Group (IMDG)	: Not regulated
	Packing Group (IATA)	: Not regulated
	Packing Group (ADN)	: Not regulated
	Packing Group (RID)	: Not regulated
14.5.	Environmental Hazards	
	Dangerous for the environment	: No
	Marine pollutant	: No
	Other information	: No supplementary information available
14.6.	Special precautions for user	

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

Not subject to AND : No

Rail transport

Carriage prohibited (RID) : No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Not applicable : No

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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All components of this product are listed on the TSCA inventory or are exempt

SARA 311/312 hazard Categories : Immediate (acute) health hazard

Ammonium hydroxide (1336-21-6)

Listed on the United States SARA Section 313

CERCLA RQ: 1000 lb

Carbon Black (1333-86-4)

Listed on the US TSCA (Toxic Substances Control Act) Inventory

#### 15.2. International regulations

##### International inventories

TSCA (US Toxic Substances Control Act Sect 8(b) Inventory) : Listed

EINECS/ELINCS (European Inventory of Existing Commercial Chemical Substances / EU List of Notified Chemical Substances) : Listed

DSL (Canadian Domestic Substances List) : Listed

NDSL (Canadian Non-Domestic Substances List) : not determined

PICCS (Philippines Inventory of Chemicals and Chemical Substances) : Listed

ENCS (Japan Existing and New Chemical Substances) : Listed

IECSC (China Inventory of Existing Chemical Substances) : Listed

AICS (Australian Inventory of Chemical Substances) : Listed

KECL (Korean Existing and Evaluated Chemical Substances) : Listed

NZIoC (New Zealand Inventory of Chemicals) : Listed

##### Canada

Carbon Black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification : Class D Division 2 Subdivision A - Very toxic material causing other toxic effects.

##### EU-Regulations

Carbon Black (1333-86-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

Listed on European List of Notified Chemical Substances (ELINCS)

#### 15.2 National regulations

#### 15.3. US State regulations

##### California Proposition 65

##### Carbon black

WARNING! This product contains a chemical known to the state of California to cause cancer, birth defects, or other reproductive harm.

US CA Proposition 65 Carcinogens List : Yes

US CA Proposition 65 - Developmental Toxicity : No

US CA Proposition 65 - Reproductive Toxicity - Female : No

US CA Proposition 65 - Reproductive Toxicity - Male : No

No significance risk level (NSRL) : Not classified

##### Carbon black

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) - List

Ammonium hydroxide (1336-21-6)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

1,2-Propylene Glycol (57-55-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) - List

### SECTION 16: Other information

Indication of changes : Revision 1.0: New SDS Created

Other information : Author EKW

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

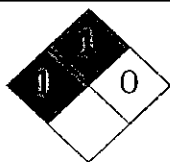
NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

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### HMIS III Rating

Davidson Marking System® Black Dye	
HEALTH	1
FLAMMABILITY	1
PHYSICAL	0
PERSONAL PROTECTION	Not Rated

### SDS US (GHS HazCom 2012) - HMIS III

While Bradley Products, Inc. believes the data set forth herein are accurate as of the date hereof, Bradley Products, Inc. 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.