

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



Item #s 1013-2, 1101-2, 1163-2, 3408-2 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
Date of Issue: 09/11/2014 Verification date: 09/11/2014 Version 2.0v1 Supersedes 06/01/2014

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.

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

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Davidson Marking System® Yellow Dye all sizes

Safety Data Sheet

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

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

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 : Foam, Dry powder, Carbon dioxide, Water spray, Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8 : Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from ???

Incompatible products : Keep container closed when not in use.

Incompatible materials : Strong bases. Strong acids.

Maximum storage period : Sources of ignition. Direct sunlight.

Storage temperature : 24 months

Storage temperature : 40 - 120°F

7.3. Specific end use(s)

No additional information available : Evacuate unnecessary personnel.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

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 : yellow liquid

Color : yellow

Odor : ammonia-like

Odor threshold : no data available

pH : 8,5 - 9,5

Relative evaporation rate (butyl acetate-1) : no data available

Melting point : no data available

Freezing point : no data available

Davidson Marking System® Yellow Dye all sizes

Safety Data Sheet

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

Boiling point	: no data available
Flash point	: no data available
Self ignition temperature	: no data available
Decomposition temperature	: no data available
Flammability (solid, gas)	: no data available
Vapor pressure	: no data available
Relative vapor density at 20°C	: no data available
Relative density	: no data available
Density	: 1.15 g/ml
Solubility	: Water Dispersible
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

No additional information available.

10.2. Chemical stability

Stable at recommended storage temperature.

10.3. Possibility of hazardous reactions

Not established

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids, Strong bases

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxide and chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Ammonium hydroxide (1336-21-6)

LD50 oral rat	350 mg/kg
ATE (oral)	350,000 mg/kg body weight

Skin corrosion / irritation : Not classified

: pH: 8.5 - 9.5

Serious eye damage / irritation : Not classified

: pH: 8.5 - 9.5

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ammonium hydroxide (1336-21-6)

LC50 fish 1	8.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	0.66 mg/l (Exposure time: 48 h - Species: water flea)
EC50 Daphnia 2	0.66 mg.l (Exposure time: 48 h - Species: Daphnia pulex)

Davidson Marking System® Yellow Dye all sizes

Safety Data Sheet

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

12.2.	Persistence and degradability
Davidson Marking System® Yellow Dye (all sizes) (proprietary)	
Persistence and degradability	Not established.
Ammonium hydroxide (1336-21-6)	
Persistence and degradability	Not established.
12.3.	Bioaccumulative potential
Davidson Marking System® Yellow Dye (all sizes) (proprietary)	
Bioaccumulative potential	Not established.
Ammonium hydroxide (1336-21-6)	
Bioaccumulative potential	Not established.
12.4.	Mobility in soil
No additional information available.	
12.5.	Other adverse effects
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerations	
13.1.	Waste treatment methods
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/state and national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport Information	
In accordance with ADR / RID / IMDG / IATA / AND	
14.1.	UN number
Not applicable	
14.2.	UN proper shipping name
US Department of Transportation (DOT)	
Hazard Classes	: Not regulated
14.3.	Additional Information
Other information	: No supplementary information available
Overland Transport	
ADR	: Not regulated
Transport by sea	
IMDG	: Not regulated
Air transport	
IATA	: Not regulated
SECTION 15: Regulatory information	
15.1.	US Federal regulations
Ammonium hydroxide (1336-21-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
15.2.	International regulations
CANADA	
Ammonium hydroxide (1336-21-6)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class E - Corrosive Material
EU-Regulations	
Ammonium hydroxide (1336-21-6)	
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Classification according to Directive 67/548/EEC or 1999/45/EC	
Not classified	
15.2.2.	National regulations
Davidson Marking System® Yellow Dye (all sizes) (proprietary)	
Components listed on the United States TSCA (Toxic Substances Control Act) inventory.	
Components listed on the Canadian DSL (Domestic Substances List) inventory.	

Davidson Marking System® Yellow Dye all sizes

Safety Data Sheet

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

Ammonium hydroxide (1336-21-6)

Listed on the AICS (the Australian inventory of Chemical Substances)
Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory
Listed on the Korean ECL (Existing Chemical List) inventory
Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)
Poisonous and Deleterious Substances Control Law
Listed on the Canadian Ingredient Disclosure List

15.3. US State regulations

Ammonium hydroxide (1336-21-6)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Louisiana - Reportable Quantity list for Pollutants
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Polluting Materials List
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) - List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Section 16 Other information

Other information : None

Full Text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
H302	Harmful if swallowed

HMIS III Rating

Davidson Marking System® Green Dye	
HEALTH	1
FLAMMABILITY	0
PHYSICAL	0
PERSONAL PROTECTION	H

Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal Protection : H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

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.