

Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 08/16/2019 Version: 2.0

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

1.1. Product identifier

| Product name | |
|--------------|--|
| Product form | |
| CAS No | |

- : Davidson Marking System Violet Dye all sizes
- : Mixtures
- : 12237-62-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Dispersion

1.3. Details of the supplier of the safety data sheet

Bradley Products, Inc. 1700 West 94th Street Bloomington, MN 55431

E-mail: dms@bradleyproducts.com Web site: www.bradleyproducts.com Phone: 952-881-1430 Toll-free: 800-325-7785 Fax: 952-881-1873

1.4. Emergency telephone number

Emergency number

: 800-325-7785

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification Skin Irrit. 2 H315 Eye Irrit. 2A H319

2.2. Label elements

| GHS- | US. | labe | llina |
|------|-----|------|-------|

| : GH507 |
|---|
| · Warning |
| : H315 - Causes skin irritation H319 - Causes serious eye irritation |
| P264 - Wash hands, forearms and face thoroughly after handling P280 - Wear eye protection, face protection, protective clothing, protective gloves P302+P352 - If on skin: Wash with plenty of soap and 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+P364 - Take off contaminated clothing and wash it 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 | % |
|--------------------|--------------------|--------|
| Ammonium hydroxide | (CAS No) 1336-21-6 | 1 - 5* |

*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret

Safety Data Sheet

| | 58 / Monday, March 26, 2012 / Rules and Regulations |
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| 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 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 position comfortable for breathing. Ge medical attention if breathing is affected. If breathing is difficult, supply oxygen. |
| First-aid measures after skin contact | : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for 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. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing. |
| First-aid measures after ingestion | : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell. |
| 4.2. Most important symptoms and effective states and effective symptoms and effective symptometry and symptometry sym | ffects, both acute and delayed |
| Symptoms/injuries | : Causes skin irritation. Causes serious eye irritation. |
| 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. |
| 4.3. Indication of any immediate med | ical attention and special treatment needed |
| No additional information available. | |
| SECTION 5: Firefighting measures | 8 |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Foam. Water spray. Dry chemical. Carbon dioxide. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| 5.2. Special hazards arising from the | substance or mixture |
| Fire hazard | : The product is not flammable. |
| Reactivity | : 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. Do not dispose of fire-fighting water in the environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| SECTION 6: Accidental release mo | easures |
| 6.1. Personal precautions, protective | equipment and emergency procedures |
| General measures | : Ventilate 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 | : Use personal protective equipment as required. |
| 6.2. Environmental precautions | |
| • | try to sewers and public waters. Notify authorities if liquid enters sewers or public waters. |

6.3. Methods and material for containment and cleaning up

| | 5.1 |
|-------------------------|--|
| For containment | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. This material and its container must be disposed of in a safe way, and as per local legislation. |

6.4. Reference to other sections

See Sections 8 and 13.

Safety Data Sheet

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

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| SECTIO | ON 7: Handling and storage | |
|-------------------------------|--|---|
| 7.1. | Precautions for safe handling | |
| Precautions for safe handling | | : Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety procedures. Provide good ventilation in process area to prevent formation of vapour. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |
| 7.2. | Conditions for safe storage, including any incompatibilities | |
| Storage | conditions | : Store in original container. Keep the container tightly closed. Store in a well-ventilated place. Keep cool. |
| Maximu | ım storage period | : 24 months |
| Storage | e temperature | : 4.5 - 37.7 °C (40 - 100 °F) |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Ammonium hydroxide (1336-21-6) | |
|--------------------------------|----------------------|
| Remark (ACGIH) | OELs not established |
| Remark (OSHA) | OELs not established |

8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Gloves. Protective goggles. Protective clothing.

Hand protection

Eye protection Skin and body protection Respiratory protection

- : Use gloves chemically resistant to this material when prolonged or repeated contact could occur.
- : Use eye protection suitable to the environment. Avoid direct contact with eyes.
- : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
- : Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical | l and chemical properties |
|--|--|
| Physical state | : Liquid |
| Color | : Violet. |
| Odor | : Ammonia-like. |
| Odor Threshold | : No data available |
| pH | : 9 (8.5 - 9.5) |
| Relative evaporation rate (butylacetate= | 1) : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1.15 g/ml |
| Solubility | : Water: dispersable |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| 12/20/2016 | Davidson Marking System Violet Dye all sizes |
| | |

Safety Data Sheet

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

| Viscosity, dynamic | : No data available |
|----------------------|---------------------|
| Explosive properties | : No data available |
| Oxidising 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 under normal conditions.

10.3. Possibility of hazardous reactions None known.

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 oxides (CO, CO₂). Copper oxides. Nitrogen oxides. Iron oxide. Titanium dioxide. fume.

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 |
| Skin corrosion/irritation | : Causes skin irritation. |
| | pH: 9 (8.5 - 9.5) |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| | pH: 9 (8.5 - 9.5) |
| Respiratory or skin sensitisation | : 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 |
| 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

Ecology - general

: Toxic to aquatic life with long lasting effects.

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

Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Prepared according to Federal Register / Vol. 77, No. 58 / N | |
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| SECTION 13: Disposal considerations | 6 |
| 13.1. Waste treatment methods | |
| Waste treatment methods | : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. |
| Waste disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. |
| SECTION 14: Transport information | |
| In accordance with DOT | |
| Transport document description | : UN3077 Environmentally hazardous substances, solid, n.o.s. (contains: C.I. Pigment Violet 27), 9, III |
| UN-No.(DOT) | : 3077 |
| DOT NA no. | : UN3077 |
| Proper Shipping Name (DOT) | : Environmentally hazardous substances, solid, n.o.s. contains: C.I. Pigment Violet 27 |
| Class (DOT) | : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140 |
| Hazard labels (DOT) | : 9 - Class 9 (Miscellaneous dangerous materials) |
| | |
| Packing group (DOT) | : III - Minor Danger |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : No limit |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel |
| Additional information | |
| Emergency Response Guide (ERG) Number | : 171 |
| Other information | : No supplementary information available. |
| IMDG – Transport by sea | |
| Transport hazard class(es) (IMDG) | : 9 |
| Danger labels (IMDG) | : 9 |
| | |
| IATA – Air transport | |
| Transport hazard class(es) (IATA) | : 9 |
| Hazard labels (IATA) | · 9 |
| | |
| | |

SECTION 15: Regulatory information

15.1. US Federal regulations

| Davidson Marking System Violet Dye all sizes (12237-62-6) | | |
|--|---------------------------------|--|
| All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | |

Safety Data Sheet

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

| Ammonium hydroxide (1336-21-6) | | |
|--------------------------------|-------------------------------|----|
| CERCLA RQ | 1000 | lb |
| Section 313 | Listed on US SARA Section 313 | |

15.2. International regulations

No additional information available.

15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

| 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 | | |

| SECTION 16: Other information | | |
|-------------------------------|---|--|
| Indication of changes | : Revision 1.0: New SDS Created. | |
| Revision date | : 12/20/2016 | |
| Other information | : Author: BCS. | |
| NFPA health hazard | : 1 - Materials that, under emergency conditions, can cause significant irritation. | |
| NFPA fire hazard | : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. | |
| NFPA reactivity | : 0 - Material that in themselves are normally stable, even under fire conditions. | |
| HMIS III Rating | | |
| Health | : 1 | |
| Flammability | : 0 | |
| Physical | : 0 | |
| Personal protection | : | |

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