# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
the 2012 OSHA Hazard Communication Standard.
(29 CFR § 1910.1200).

**Date of document**

| Origination | Last Regulatory Review | Print |
|---|---|---|
| *29-Dec-2021* | *30-Dec-2024* | *30-Dec-2024* |

## 1. IDENTIFICATION

**Product identifier**

**Product identifier** **88N10484**
**Product Name** **NEMA LIGHT BROWN PVC DISPERSION**

**Other means of identification**

**CAS Number:** Mixture

**Synonyms** None

**Supplied By** Penn Color, Inc.
2801 Richmond Road
Hatfield, PA 19440

**Recommended use of the chemical and restrictions on use**

**Recommended Use** FOR INDUSTRIAL USE ONLY!

**Restrictions on use** No information available

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Manufacturer:**
Penn Color, Inc.
2801 Richmond Road
Hatfield, PA 19440

**Company Phone Number**
+1 (215) 997-2221

**Facsimile**
+1 (215) 822-5801

**Contact Point** Product Stewardship Team
**SDS Inquiries** msds@penncolor.com

**Regulatory Inquiries** regulatory@penncolor.com
**Web Address** www.penncolor.com

**Emergency Telephone Number:**

**Chemtrec USA: 1 (800) 424-9300 or +1 (703) 527-3887**

**Chemtrec In-Country**
Argentina: +54 11 5983-9431

Brazil: Rio De Janeiro +55 21 3958-1449
Brazil: Sao Paulo +55 11 4349-1359
Brazil: Toll Free - Mobile Enabled 0800 892 0479

Chile: Santiago +56 2 2581 4934

Colombia: Bogota +57 601 7942539
Columbia: Toll Free 01-800-7102151

**Chemtrec Registrant Identifier:**
**Penn Color, Inc. CCN - 16979**

# 2. HAZARDS IDENTIFICATION

## Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

## Hazards not otherwise classified (HNOC)

Not applicable.

## Label elements

### Signal word

None

### Hazard statements

None.

### Precautionary Statements - Prevention

None

### Precautionary Statements - Response

None

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**
None

**Other Information:**

**Other hazards** None

**Numerical measures of toxicity**

**Acute toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

| | | |
|---|---|---|
| **ATEmix (oral)** | 99,999.00 | mg/kg |
| **ATEmix (dermal)** | 99,999.00 | mg/kg |
| **ATEmix (inhalation-gas)** | 99,999.00 | ppm |
| **ATEmix (inhalation-dust/mist)** | 99,999.00 | mg/l |
| **ATEmix (inhalation-vapor)** | 99,999.00 | mg/l |

**Unknown acute toxicity**

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

The product contains no substances which at their given concentration, are considered to be hazardous to health

# 4. FIRST AID MEASURES

**Description of first aid measures**

**Eye contact** • Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician

| | |
|---|---|
| **Skin contact** | • Wash skin with soap and water |
| **Inhalation** | • Remove to fresh air |
| **Ingestion** | • Rinse mouth |

**Most important symptoms and effects, both acute and delayed**

| | |
|---|---|
| **Symptoms** | • No information available |

**Indication of any immediate medical attention and special treatment needed**

| | |
|---|---|
| **Note to physicians** | • Treat symptomatically |

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

| | |
|---|---|
| **Suitable Extinguishing Media** | • CO2, dry chemical, dry sand, alcohol-resistant foam |
| **Unsuitable extinguishing media** | • CAUTION: Use of water spray when fighting fire may be inefficient |
| **Specific hazards arising from the chemical** | • No information available |
| **Hazardous combustion products** | • Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, and other toxic compounds. |

**Explosion data**

| | |
|---|---|
| **Sensitivity to mechanical impact** | • None |
| **Sensitivity to static discharge** | • None |
| **Special protective equipment and precautions for fire-fighters** | • Wear self-contained breathing apparatus and protective suit |

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

| | |
|---|---|
| **Personal precautions** | • Ensure adequate ventilation |

**For emergency responders** • Use personal protection recommended in Section 8

**Methods and material for containment and cleaning up**

**Methods for containment** • Prevent further leakage or spillage if safe to do so

**Methods for cleaning up** • Pick up and transfer to properly labeled containers

**Prevention of secondary hazards** • Clean contaminated objects and areas thoroughly observing environmental regulations

**Reference to other sections** • See Section 12 for additional Ecological Information

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** • Handle in accordance with good industrial hygiene and safety practice

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** • Keep containers tightly closed in a dry, cool and well-ventilated place

**Incompatible materials** • None known based on information supplied

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Carbon black<br>1333-86-4<br>1 - < 3 | TWA: 3 mg/m³ inhalable particulate matter | TWA: 3.5 mg/m³<br>(vacated) TWA: 3.5 mg/m³ | IDLH: 1750 mg/m³<br>TWA: 3.5 mg/m³<br>TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH |

| | | | |
|---|---|---|---|
| Diarylide Pigment<br><br>1 - < 3 | | See Note | |

**Note**

For more information regarding the hazards of carbon black, please see **Section 11.**
For more information regarding the hazards of diarylide pigments processed at elevated temperatures, please see the discussion of hazardous decomposition products in **Section 10.**

**Appropriate engineering controls**

**Engineering controls** • Showers, eyewash stations, and ventilation systems

**Individual protection measures, such as personal protective equipment**

**General hygiene considerations** • Handle in accordance with good industrial hygiene and safety practice

**Eye/face protection** • Wear safety glasses with side shields (or goggles)

**Hand protection** • Wear suitable gloves

**Skin and body protection** • Wear suitable protective clothing

**Respiratory protection** • When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Solid |
| **Appearance** | Pellets |
| **Color** | brown |
| **Odor** | No information available |
| **Odor Threshold** | No information available |

| **Property** | **Values** | **Remarks Method** |
|---|---|---|
| **pH** | No data available | None known |
| **pH (as aqueous solution)** | | None known |
| **Melting point / freezing point** | No data available | No information available |
| **Boiling point / boiling range °C** | No data available | None known |

| | | |
|---|---|---|
| **Flash point** | No data available | Closed Cup |
| **Evaporation rate** | No data available | None known |
| **Flammability (solid, gas)** | No data available | None known |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Vapor Pressure** | No data available | None known |
| **Vapor Density** | No data available | None known |
| **Relative Density** | No data available | |
| **Water solubility** | No data available | None known |
| **Solubility(ies)** | No data available | None known |
| **Partition coefficient: n-octanol/water** | No data available | |
| **Autoignition temperature** | No data available | None known |
| **Decomposition temperature** | | None known |
| **Kinematic Viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | None known |

**Other information**

| | |
|---|---|
| **Explosive properties** | No data available |
| **Oxidizing properties** | No data available |
| **Softening Point** | No data available |
| **Molecular weight** | No data available |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Reactivity** | Stable |
| **Chemical stability** | Stable |
| **Possibility of hazardous reactions** | None under normal processing |
| **Conditions to avoid** | Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation, freezing temperatures. |
| **Incompatible materials** | None known based on information supplied |
| **Hazardous decomposition products** | Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, and other toxic compounds, Information supplied |

to Penn Color indicates that diarylide pigments in polymers can decompose at temperatures above 200° C to produce trace amounts of 3,3' Dichlorobenzidine. The amount and species of degradation products formed depends on the temperature, dwell time, formulation and processing conditions of the product

# 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

| | |
|---|---|
| **Inhalation** | Specific test data for the substance or mixture is not available |
| **Eye contact** | Specific test data for the substance or mixture is not available |
| **Skin contact** | Specific test data for the substance or mixture is not available |
| **Ingestion** | Specific test data for the substance or mixture is not available |

**Symptoms related to the physical, chemical and toxicological characteristics**

| | |
|---|---|
| **Symptoms** | No information available |

**Numerical measures of toxicity**

**Acute toxicity**

**The following values are calculated based on chapter 3.1 of the GHS document**

| | | |
|---|---|---|
| **ATEmix (oral)** | 99,999.00 | mg/kg |
| **ATEmix (dermal)** | 99,999.00 | mg/kg |
| **ATEmix (inhalation-gas)** | 99,999.00 | ppm |
| **ATEmix (inhalation-dust/mist)** | 99,999.00 | mg/l |
| **ATEmix (inhalation-vapor)** | 99,999.00 | mg/l |

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Ba Compound 41 | > 10000 mg/kg ( Rat ) | | > 5.24 mg/L ( Rat ) 4 h |
| Carbon black 1333-86-4 | > 10000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 4.6 mg/m$^3$ ( Rat ) 4 h |
| Diarylide Pigment | | > 3000 mg/kg ( Rat ) | > 230 mg/L ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available

**Serious eye damage/eye irritation** No information available

**Respiratory or skin sensitization** No information available

**Germ cell mutagenicity** No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Carbon black 1333-86-4 | A3 | Group 2B | | X |
| Paraffinic Solvent | A2 | Group 1 | | X |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
**IARC (International Agency for Research on Cancer)**
Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
**Occupational Safety and Health Administration of the US Department of Labor**
X - Present

**Other information** This product has not been reviewed for carcinogenicity by IARC, NTP or OSHA. It contains carbon black, which is considered hazardous, and for which exposure limits have been established. IARC classifies carbon black as a category 2B carcinogen (known animal carcinogen, possible human carcinogen) based on inhalation studies with animals. At this time neither

NTP nor OSHA has classified carbon black as a carcinogen. All of the hazards attributed to carbon black relate to inhalation of respirable size particles when it is in its powdered form. Our products, in the form provided (liquid, paste, or pellets), do not contain carbon black in a powder form, and it is not expected that carbon black particles of respirable size would be generated during normal use of this product. For additional information, see **Section 15.**

**Reproductive toxicity** No information available

**Developmental Toxicity** No information available

**Teratogenicity** No information available

**STOT - single exposure** No information available

**STOT - repeated exposure** No information available

**Target organ effects** No information available

**Subchronic Toxicity** No information available

**Neurological Effects** No information available

**Other Adverse Effects** No information available

**Aspiration hazard** No information available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Component Information**

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---|---|---|---|---|
| Ba Compound 41 | | LC50: >500mg/L (96h, Brachydanio rerio) | | EC50: >2.2mg/L (48h, Daphnia magna) |

**Persistence and degradability** No information available

**Bioaccumulation** There is no data for this product

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Ba Compound 41 | 1.69 |
| Diarylide Pigment | 0.4 |

**Other adverse effects** No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Waste from residues/unused products**
- Dispose of in accordance with local regulations
- Dispose of waste in accordance with environmental legislation

**Contaminated packaging**
- Do not reuse empty containers

## 14. TRANSPORT INFORMATION

**USDOT**

**Status** Not regulated

**ICAO (air)**

**Status** Not regulated

**IMO**

**Status** Not regulated

# 15. REGULATORY INFORMATION

**International Inventories:**

| | |
|---|---|
| **United States:** | **All components of this product are designated as "Active" on the TSCA Inventory or are not required to be listed.** |
| **Inventory Note** | For additional global inventory information, please contact the Product Stewardship Team at regulatory@penncolor.com |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**US Federal Regulations:**

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | Weight-% | SARA - Section 313: |
|---|---|---|
| Ba Compound 41 | 3 - < 5 | = 1.0 % de minimis concentration |

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute health hazard** | No |
| **Chronic Health Hazard** | No |
| **Fire hazard** | No |
| **Sudden release of pressure hazard** | No |
| **Reactive Hazard** | No |

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

| Chemical name | California Proposition 65 |
|---|---|
| Ba Compound 41 | Carcinogen |
| Carbon black<br>1333-86-4 | Carcinogen |

**Note:**

The listing of carbon black in the CA PROP 65 REGULATION specifically pertains to airborne, unbound, carbon black particles of respirable size, meaning that all three criteria must be met before carbon black would be considered a carcinogen according to the requirements of CA PROP 65. Our products, in the form provided (liquid, paste or pellets), do not contain carbon black in a powder form, and it is not expected that carbon black particles of respirable size would be generated during normal use of this product.

This product may contain trace levels of metal impurities that are on the California Proposition 65 list. This product may also contain other substances on the California Prop 65 list at levels below 1000 ppm. For some of these substances, their listings are qualified as specifically relating to airborne, unbound particles of respirable size. If additional information is needed please send a request to regulatory@penncolor.com.

For additional information, see **Section 11.**

**U.S. State Right-to-Know Regulations**

**US State Regulations**

| Chemical name | Massachusetts | New Jersey | Pennsylvania | Pennsylvania RTK - Special Hazardous Substances: |
|---|---|---|---|---|
| Ba Compound 41 | | X | X | |
| Carbon black<br>1333-86-4 | X | X | X | |
| Paraffinic Solvent | X | | | |

**Note:**

For more information regarding the hazards of carbon black, please see **Section 11.**

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

## HMIS

| | |
|---|---|
| **Health hazards** | 1 |
| **Flammability** | 1 |
| **REACTIVITY:** | 0 |
| **PERSONAL PROTECTION:** | X |

## Key literature references and sources for data used to compile the SDS

- Supplier documentation
- Process documentation

## Date of document

| | |
|---|---|
| **Origination** | 29-Dec-2021 |
| **Last Regulatory Review** | 30-Dec-2024 |
| **Print Date** | 30-Dec-2024 |

## Revision Note:

| | |
|---|---|
| **Revision Date** | 29-Dec-2021 |
| **Revision Number** | 1 |
| **Reason for Revision** | No information available |

## Disclaimer

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

# End of Safety Data Sheet