



## 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:**  
*05-Jul-2022*

**Last Regulatory Review**  
*05-Jul-2022*

**Print:**  
*05-Jul-2022*

### 1. IDENTIFICATION

**Product identifier**

**Product Id:** **88G10588**  
**Product Name:** **Dark Green PVC**

**Other means of identification**

**CAS Number:** Mixture  
**Synonyms:** None  
**Supplied By:** Penn Color, Inc.  
400 Old Dublin Pike  
Doylestown, PA 18901

**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**

<b><u>Manufacturer:</u></b> Penn Color, Inc. 400 Old Dublin Pike Doylestown, PA 18901	<b><u>Company Phone Number</u></b> +1 (215) 997-2221	<b><u>Facsimile:</u></b> +1 (215) 822-5801
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<b>Contact Point</b>	Product Stewardship Team
<b>SDS Inquiries:</b>	msds@penncolor.com
<b>Regulatory Inquiries:</b>	regulatory@penncolor.com
<b>Web Address:</b>	www.penncolor.com

**Emergency telephone number**

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

**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)**

None

**Label elements**

## **EMERGENCY OVERVIEW**

**Classification**

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

**Signal word**

None

**Hazard statements**

None

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

**Physical properties**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Pellets
<b>Odor:</b>	No information available

**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:**

<b>Other hazards</b>	None
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<b>Unknown Acute Toxicity</b>	0 % of the mixture consists of ingredient(s) of unknown toxicity
<b>Acute oral toxicity</b>	0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
<b>Acute dermal toxicity</b>	0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
<b>Acute inhalation toxicity - gas</b>	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
<b>Acute inhalation toxicity - vapor</b>	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
<b>Acute inhalation toxicity - dust/mist</b>	0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 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

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<b>Eye contact</b>	<ul style="list-style-type: none"><li>• Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician</li></ul>
<b>Skin contact</b>	<ul style="list-style-type: none"><li>• Wash skin with soap and water</li></ul>
<b>Inhalation</b>	<ul style="list-style-type: none"><li>• Remove to fresh air</li></ul>
<b>Ingestion</b>	<ul style="list-style-type: none"><li>• Clean mouth with water and drink afterwards plenty of water</li></ul>

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

<b>Symptoms</b>	<ul style="list-style-type: none"><li>• No information available</li></ul>
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**Indication of any immediate medical attention and special treatment needed**

<b>Note to physicians</b>	<ul style="list-style-type: none"><li>• Treat symptomatically</li></ul>
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<b>5. FIRE-FIGHTING MEASURES</b>
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**Extinguishing media**

<b>Suitable Extinguishing Media</b>	<ul style="list-style-type: none"><li>• CO2, dry chemical, dry sand, alcohol-resistant foam</li></ul>
<b>Unsuitable extinguishing media</b>	<ul style="list-style-type: none"><li>• Caution: Use of water spray when fighting fire may be inefficient</li></ul>
<b>Specific hazards arising from the chemical</b>	<ul style="list-style-type: none"><li>• No information available</li></ul>
<b>Hazardous combustion products</b>	<ul style="list-style-type: none"><li>• Thermal decomposition and burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, and other toxic compounds.</li></ul>

**Explosion data**

**Sensitivity to Mechanical Impact**  
**Sensitivity to Static Discharge**

- None
- None

**Special protective equipment 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

### 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 IDLH
Calcium Carbonate - Limestone 1317-65-3 35 - < 50		TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Titanium Dioxide 13463-67-7 5 - < 10	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> CIB 63 fine TWA: 0.3 mg/m <sup>3</sup> CIB 63 ultrafine, including engineered nanoscale
Pigment Blue 5 - < 10	TWA: 1 mg/m <sup>3</sup> Cu dust and mist		IDLH: 100 mg/m <sup>3</sup> Cu dust and mist
Diarylide Pigment 1 - < 3		See Note	

**Note:**

For more information regarding the hazards of titanium dioxide, 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**

<b>Engineering controls</b>	• Showers
	• Eyewash stations
	• Ventilation systems

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

<b>General hygiene considerations</b>	• Handle in accordance with good industrial hygiene and safety practice
<b>Eye/face protection</b>	• Wear safety glasses with side shields (or goggles)
<b>Hand protection</b>	• Wear suitable gloves
<b>Skin and body protection</b>	• Wear suitable protective clothing
<b>Respiratory protection</b>	• 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**

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Pellets
<b>Color</b>	dark green
<b>Odor:</b>	No information available
<b>Odor Threshold:</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks / Method</u></b>
<b>pH</b>	no data available	None known
<b>Melting point / freezing point</b>	no data available	None known
<b>Boiling point /</b>	no data available	None known



<b>boiling range (° C)</b>		
<b>Flash point</b>	no data available	None known
<b>Evaporation rate</b>	no data available	None known
<b>Flammability (solid, gas)</b>	no data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	no data available	
<b>Lower flammability or explosive limits</b>	no data available	
<b>Vapor Pressure</b>	no data available	None known
<b>Vapor Density</b>	no data available	None known
<b>Bulk Density</b>	no data available	None known
<b>Relative Density</b>	no data available	None known
<b>Water Solubility</b>	no data available	None known
<b>Solubility in Other Solvents</b>	no data available	None known
<b>Partition Coefficient: n-octanol / water</b>	no data available	None known
<b>Autoignition temperature</b>	no data available	None known
<b>Decomposition temperature</b>	no data available	None known
<b>Kinematic Viscosity</b>	no data available	None known
<b>Dynamic viscosity</b>	no data available	None known

#### Other Information

<b>Explosive properties</b>	no data available
<b>Oxidizing Properties</b>	no data available
<b>Softening Point</b>	no data available
<b>Molecular weight</b>	no data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable
<b>Chemical stability</b>	Stable
<b>Possibility of Hazardous Reactions</b>	None under normal processing

<b>Conditions to avoid</b>	Direct heating, dirt, chemical contamination, sunlight, UV or ionizing radiation, freezing temperatures.
<b>Incompatible materials</b>	None known based on information supplied
<b>Hazardous Decomposition Products</b>	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

<b>Inhalation</b>	Specific test data for the substance or mixture is not available
<b>Eye contact</b>	Specific test data for the substance or mixture is not available
<b>Skin contact</b>	Specific test data for the substance or mixture is not available
<b>Ingestion</b>	Specific test data for the substance or mixture is not available

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

<b>Symptoms</b>	No information available
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### Numerical Measures of Toxicity

**Acute Toxicity**

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

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

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

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

**Acute inhalation toxicity - gas** 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

**Acute inhalation toxicity - vapor** 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

**Acute inhalation toxicity - dust/mist** 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Titanium Dioxide 13463-67-7			= 5.09 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:
Titanium Dioxide 13463-67-7		Group 2B		X

### Legend

**IARC (International Agency for Research on Cancer)**

Group 2B - Possibly Carcinogenic to Humans

**OSHA (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, OSHA or ACGIH. It contains titanium dioxide which is not listed as a carcinogen by NTP, OSHA, or ACGIH. However, in 2006, IARC released Monograph Vol. 93 in which it reclassified titanium dioxide from not classifiable as to its carcinogenicity to humans (Group 3) to possibly carcinogenic to humans (Group 2B). The reclassification was based on two studies in which rats were exposed to extremely high concentrations of titanium dioxide pigment powders in a closed chamber for extended periods of time. It is important to note that the results of epidemiology studies which evaluated more than 20,000 titanium dioxide industry workers in Europe and the US did NOT suggest a carcinogenic effect from titanium dioxide dust on the human lung or mortality from other chronic diseases including respiratory diseases not associated with titanium dioxide dust. Based upon the results of these studies, the pigment manufacturer(s) conclude that TiO<sub>2</sub> will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace. 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

**Persistence and degradability** No information available

**Bioaccumulation** No information available

### **Component Information**

Chemical Name	Partition Coefficient:
Pigment Blue	6.6

**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

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste Status
Pigment Blue	Toxic

### 14. TRANSPORT INFORMATION

#### USDOT:

**Status:** Not regulated

#### ICAO / IATA:

**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](mailto:regulatory@penncolor.com)

Legend:

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

US Federal Regulations:CWA (Clean Water Act):

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	RQ of Designated Hazardous Substances:	CWA - Toxic Pollutants	Clean Water Act - Priority Pollutants:	Clean Water Act - Hazardous Substances
Pigment Blue		X		

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**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	SARA - Section 313:
Pigment Blue	Delisted from the copper compounds category in = 1989.

**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
Titanium Dioxide 13463-67-7	Carcinogen

**Note:**

2.) The listing of titanium dioxide in the CA PROP 65 REGULATION specifically pertains to airborne, unbound, titanium dioxide particles of respirable size, meaning that all three criteria must be met before titanium dioxide 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 titanium dioxide in a powder form,



and it is not expected that titanium dioxide particles of respirable size would be generated during normal use of this product. For additional information, see **Section 11**.

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 [msds@penncolor.com](mailto:msds@penncolor.com).

### U.S. State Right-to-Know Regulations:

#### US State Regulations:

Chemical Name	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:	Pennsylvania RTK - Special Hazardous Substances:
Calcium Carbonate - Limestone 1317-65-3	X	X	X	
Titanium Dioxide 13463-67-7	X	X	X	
Pigment Blue		X	X	

#### Note:

For more information regarding the hazards of titanium dioxide, please see **Section 11**.

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

### HMIS Health Rating:

<b>HEALTH:</b>	1
<b>FLAMMABILITY:</b>	1
<b>REACTIVITY:</b>	0
<b>PERSONAL PROTECTION:</b>	X

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

- Supplier documentation
- Process documentation

**Date of document:**

<b>Origination:</b>	05-Jul-2022
<b>Last Regulatory Review</b>	05-Jul-2022
<b>Print Date:</b>	05-Jul-2022

**Revision Note:**

<b>Revision Date:</b>	05-Jul-2022
<b>Revision Number:</b>	1
<b>Reason for Revision:</b>	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**