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
10-Nov-2021	*27-Aug-2024*	*27-Aug-2024*

1. IDENTIFICATION

Product identifier

Product identifier **88G10449**
Product Name **MUNSELL GREEN PVC DISPERSION**

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

Manufacturer:
Penn Color, Inc.
400 Old Dublin Pike
Doylestown, PA 18901

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)

None

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

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

Physical state Solid
Appearance Pellets
Odor 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:

Other hazards None

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

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)

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	• Clean mouth with water and drink afterwards plenty of water

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 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
Pigment Blue 1 - < 3	TWA: 1 mg/m³ Cu dust and mist		IDLH: 100 mg/m³ Cu dust and mist
Carbon black 1333-86-4 0.25 - < 1	TWA: 3 mg/m³ inhalable particulate matter	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

Note

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

Appropriate engineering controls

Engineering controls
- Showers
- Eyewash stations
- Ventilation systems

Individual protection measures, such as personal protective equipment

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

considerations

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	green
Odor	No information available
Odor Threshold	No information available

Property	Values	Remarks Method
pH	No data available	None known
Melting point / freezing point	No data available	None known
Boiling point / boiling range °C	No data available	None known
Flash point	No data available	None known
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
Bulk Density	No data available	None known
Relative Density	No data available	None known
Water Solubility	No data available	None known
Solubility in Other Solvents	No data available	None known

Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Hyphen	No data available	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

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Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Pigment Blue	> 10000 mg/kg (Rat)	> 5000 mg/kg (Rat)	

Diarylide Yellow 55	> 1750 mg/kg (Rat)		
Carbon black 1333-86-4	> 15400 mg/kg (Rat)		> 4.6 mg/m^3 (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

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
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 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

Persistence and degradability No information available

Bioaccumulation There is no data for this product

Component Information

Chemical name	Partition coefficient
Pigment Blue	6.6
Diarylide Yellow 55	0.02

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 (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 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		

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:
Pigment Blue	1 - < 3	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
Carbon black 1333-86-4	Carcinogen

Note:

1.) 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. 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.

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:
Pigment Blue		X	X	
Carbon black 1333-86-4	X	X	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 Rating:

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	10-Nov-2021
Last Regulatory Review	27-Aug-2024
Print Date	27-Aug-2024

Revision Note:

Revision Date	10-Nov-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