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:
06-Jul-2022	*06-Jul-2022*	*06-Jul-2022*

1. IDENTIFICATION

Product identifier

Product Id: **88Y10609**
Product Name: **YELLOW 316 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

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 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

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

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
Calcium Carbonate - Limestone 1317-65-3 20 - < 35		TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Titanium Dioxide 13463-67-7 20 - < 35	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³ TWA: 2.4 mg/m³ CIB 63 fine TWA: 0.3 mg/m³ CIB 63 ultrafine, including engineered nanoscale
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 tempuratures, please see the discussion of hazardous decomposition products in **Section 10.**

Appropriate engineering controls

Engineering controls
- Showers
- Eyewash stations
- 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	yellow
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
Decomposition temperature	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 .

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 TiO2 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
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 / 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

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

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.

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	

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:

HEALTH:	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:	06-Jul-2022
Last Regulatory Review	06-Jul-2022
Print Date:	06-Jul-2022

Revision Note:

Revision Date:	06-Jul-2022
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