



SAFETY DATA SHEET

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

Document Dates:

Origination: <i>15-Sep-2003</i>	Last Regulatory Review: <i>05-Feb-2019</i>	Print: <i>05-Feb-2019</i>
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1. IDENTIFICATION

Product identifier

Product Id: 83W345F
Product Name: TIO2 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 Group

E-mail address msds@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

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

Physical State:
Solid

Appearance:
Chip

Odor:
No data 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 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
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Indication of any immediate medical attention and special treatment needed

Note to physicians	• Treat symptomatically
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5. FIRE-FIGHTING MEASURES

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

- Thermal decomposition can lead to release of toxic and corrosive gases/vapors

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**

Chemical Name	ACGIH TLV:	OSHA PEL	NIOSH IDLH
Titanium Dioxide 13463-67-7 65 - < 85	TWA: 10 mg/m ³	15 mg/m ³ TWA (vacated) TWA: 10 mg/m ³ total dust	5000 mg/m ³

Note:

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

Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems
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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:	Chip
Color	white
Odor:	No information available
Odor Threshold:	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
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	2.553	
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 under normal conditions.
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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
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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.
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Numerical Measures of Toxicity

Acute Toxicity

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 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)

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		Group 2B -		X

13463-67-7		Monograph 93 [2010] Group 2B - Monograph 47 [1989]		
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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

Chemical Name	Algae / Aquatic Plants:	Fish:	Toxicity to Microorganisms	Crustacea:
Diisononyl Phthalate 28553-12-0	1.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 500: 72 h Desmodesmus subspicatus mg/L EC50			0.06: 48 h Daphnia magna mg/L EC50 Static 500: 48 h Daphnia magna mg/L EC50

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:

Australia	All of the ingredients are listed on or compliant with the AICS Inventory.
Canada:	All of the ingredients are listed on or compliant with the DSL Inventory.
China:	All of the ingredients are listed on or compliant with the IECSC Inventory.
Europe:	For further information regarding the REACH compliance of this item, please contact Regulatory Affairs.
Japan:	One or more of the ingredients are not listed or compliant with the ENCS Inventory.
Korea:	All of the ingredients are listed on or compliant with the KECL Inventory.
New Zealand:	All of the ingredients are listed on or compliant with the NZIoC Inventory.
Philippines:	All of the ingredients are listed on or compliant with the PICCS Inventory.
Taiwan:	One or more of the ingredients are not listed on or compliant with the TCS Inventory.
United States:	All of the ingredients are listed on or compliant with the TSCA Inventory.

Legend:

AICS - Australia Inventory of Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

NZIoC - New Zealand Inventory of Chemical Substances.

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

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
Diisononyl Phthalate 28553-12-0		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 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

U.S. EPA Label Information:

EPA Pesticide Registration Number: Not Applicable

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
Diisononyl Phthalate 28553-12-0	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:
Titanium Dioxide 13463-67-7	Present	1861	Present	
Diisononyl Phthalate 28553-12-0			Environmental hazard	

Note:

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

<p align="center">16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION</p>
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HMIS Health Rating:**HEALTH:**

1

FLAMMABILITY:	1
REACTIVITY:	0
PERSONAL PROTECTION:	X

Revision Date: 05-Feb-2019

Revision Note:

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