

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.31.2025

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Revision date: 08.18.2026

Tough 1500 Resin V2

SECTION 1: Identification

Product Identifier

Product Name: Tough 1500 Resin V2

Product code: FLST1502

Recommended Use of the Chemical and Restrictions on Use:

Recommended Uses: For use in Formlabs SLA Printers.

Restrictions on Use: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

United States

Formlabs, Inc

35 Medford St

Suite 201 Somerville, MA 02143

+1 617 855 0762

sds@formlabs.com

Emergency Telephone Number:

United States

CHEMTREC

1-800-424-9300 (24/7)

SECTION 2: Hazard Identification

Classification of the chemical in accordance with paragraph (d) of § 1910.1200:

Skin irritation, category 2

Eye irritation, category 2A

Skin sensitization, category 1

Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Label elements

Hazard Symbol(s):



Signal Word: Warning

Hazard statement(s):

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

Precautionary Statement(s):

P264 Wash ... thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P261 Avoid breathing dust/fume/gas/mist/ vapors/spray.

P272 Contaminated work clothing must not be allowed out of the workplace.

P271 Use only outdoors or in a well-ventilated area.

P302+P352 If on skin: Wash with plenty of water/ ...

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P321 Specific treatment (see...on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor/.../if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to ...

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: Trade Secret	Methacrylate monomer(s)	40-60
CAS Number: 72869-86-4	Urethane dimethacrylate	15-25
CAS Number: 84434-11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	<5
CAS Number: Trade Secret	Colorant	<1

Additional information: No additional information

SECTION 4: First Aid Measures

Description of Necessary Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention

After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

After Eye Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

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After Ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Skin contact may result in redness, pain, burning and inflammation
Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing
Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis
Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time)

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Immediate Medical Attention:

If respiratory symptoms persist, seek medical attention

Special Treatment:

No additional information.

Notes for the Doctor:

Treat symptomatically

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam

Unsuitable Extinguishing Media:

Do not use water jet

Specific Hazards Arising From The Chemical:

Thermal decomposition may produce irritating/toxic fumes/gases

Special Protective Equipment and Precautions for Fire-Fighters

Special Protective Equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode

Special precautions

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid

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breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Colorant	Trade Secret	8-Hour TWA: 2.5 mg/m ³ (finescale particles, respirable particulate matter)
	Colorant	Trade Secret	8-Hour TWA: 0.2 mg/m ³ (nanoscale particles, respirable particulate matter)
OSHA	Colorant	Trade Secret	8-Hour TWA-PEL: 15 mg/m ³ (total dust)
NIOSH	Colorant	Trade Secret	REL-TWA: 0.3 mg/m ³ (ultrafine, including engineered nanoscale [up to 10 hr])
	Colorant	Trade Secret	IDLH: 5000 mg/m ³
	Colorant	Trade Secret	REL-TWA: 2.4 mg/m ³ (fine [up to 10 hr])
United States(California)	Colorant	Trade Secret	8-Hour TWA-PEL: 10 mg/m ³ (particles not otherwise regulated, total dust)
	Colorant	Trade Secret	8-Hour TWA-PEL: 5 mg/m ³ (particles not otherwise regulated, respirable fraction)

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

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Appropriate Engineering Controls:

Not determined or not applicable.

Individual Protection Measures, Such as Personal Protective Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical state	Not determined or not available.
Color	Not determined or not available.
Odor (includes odor threshold)	Characteristic acrylate.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>100°C
Flammability	Not flammable.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	>93.5°C
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Vapor pressure (includes evaporation rate)	Not determined or not available.
Density and/or relative density	1.12 g/cm ³
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

Other Information

No additional information.

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SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:

Polymerization initiators, including peroxides, strong oxidizing agents, alcohols, copper, copper alloys, carbon steel, iron, rust, and strong bases.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Methacrylate monomer(s)	oral	LD50 Rat: 3160 mg/kg
	dermal	LD50 Rabbit: >3000 mg/kg
Urethane dimethacrylate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >=2000 mg/kg
Colorant	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: 5.09 mg/L (4 hr [aerosol])
	dermal	LD50 Rat: > 2000 mg/kg

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Methacrylate monomer(s)	Causes skin irritation

Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data:

No data available.

Substance Data:

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Name	Result
Methacrylate monomer(s)	Causes serious eye irritation

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data:

No data available.

Substance Data:

Name	Result
Urethane dimethacrylate	May cause an allergic skin reaction.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Urethane dimethacrylate	Not Applicable
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Not Applicable
Colorant	Group 2B
Methacrylate monomer(s)	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Urethane dimethacrylate	Not Applicable
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Not Applicable
Colorant	Not Applicable
Methacrylate monomer(s)	Not Applicable

OSHA Carcinogens:

Ingredient Name	CAS	OSHA Carcinogens Status
Titanium Dioxide	13463-67-7	Yes

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

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Assessment:

May cause respiratory irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Methacrylate monomer(s)	May cause respiratory irritation

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Interactive effects:

No additional information.

Other Information:

No additional information.

SECTION 12: Ecological Information

Ecotoxicity

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate monomer(s)	Fish LC50 Danio rerio: 1.79 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 2.57 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Pseudokirchneriella subcapitata: 2.28 mg/L (72 hr [growth rate])
Urethane dimethacrylate	Fish LC50 Danio rerio: 10.1 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodesmus subspicatus: > 0.68 mg/L (72 hr [growth rate])
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Aquatic Plants EC50 Desmodesmus subspicatus: 1.01 mg/L (72 hr [growth rate])
	Fish LC50 Danio rerio: 1.89 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 2.26 mg/L (48 hr [mobility])

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Name	Result
Colorant	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: >100 mg/L (72 hr [growth rate])
	Fish LC50 Pimephales promelas: >1000 mg/L (96 hr)

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate monomer(s)	Aquatic Invertebrates EC50 Daphnia magna: 0.658 mg/L (21 d [reproduction])
Colorant	Aquatic Invertebrates NOEC Daphnia magna: >= 10 mg/L (21 d [population and growth rate])
	Fish NOEC Freshwater fish: >= 80 mg/L (6 d [time to hatch])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate monomer(s)	The substance is readily biodegradable. 70% degradation in water, measured by CO2 evolution, after 28 days.
Urethane dimethacrylate	The substance is not readily biodegradable. 22% degradation in water, measured by CO2 evolution, after 28 days.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance is not readily biodegradable. <10 % degradation in water, measured by O2 consumption, after 28 days.
Colorant	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate monomer(s)	The substance is not expected to bioaccumulate (BCF: 37 dimensionless).
Urethane dimethacrylate	The substance has the potential to bioaccumulate (log Pow: 3.39 at 20 °C).
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance is not expected to bioaccumulate (log Kow: 2.91 at 25 °C).
Colorant	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate monomer(s)	The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc: 3.71 dimensionless at 25 °C).

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Name	Result
Urethane dimethacrylate	The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc: 3.655 dimensionless at 25 °C, QSAR substance data).
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc: 3.07 dimensionless at 26 °C).
Colorant	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Methacrylate monomer(s)	The substance is not PBT
Urethane dimethacrylate	The substance is not PBT.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance is not PBT.
Colorant	PBT assessment does not apply to inorganic compounds such as this substance.

vPvB assessment:

Methacrylate monomer(s)	The substance is not vPvB
Urethane dimethacrylate	The substance is not vPvB.
Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	The substance is not vPvB.
Colorant	vPvB assessment does not apply to inorganic compounds such as this substance.

Other Adverse Effects: No additional information.

SECTION 13: Disposal Considerations

Disposal Methods:

As supplied, this material is not considered a hazardous waste under RCRA. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Do not discharge into public wastewater or surface waters. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

Contaminated packaging:

Dispose in a safe manner in accordance with local and national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	UN 3082
UN Proper Shipping Name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate

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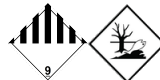
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UN Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Marine Pollutant	
Special Precautions for User	None	
Additional Information	49 CFR 171.4(c)(2) Not regulated as dangerous goods when transported in single or inner packaging of 5 L or less for liquids or net mass of 5 Kg or less for solids provided the packaging meets the requirements of 49 CFR 173.24(a).	

International Maritime Dangerous Goods (IMDG)

UN Number	UN 3082	
UN Proper Shipping Name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate	
UN Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Marine Pollutant	
Special Precautions for User	None	
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	UN 3082	
UN Proper Shipping Name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate	
UN Transport Hazard Class(es)	9	
Packing Group	III	
Environmental Hazards	Marine Pollutant	
Special Precautions for User	None	
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L provided the packaging meets the general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.	

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	Not Applicable
Ship Type	Not Applicable
Pollution Category	Not Applicable

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA):

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72869-86-4	Urethane dimethacrylate	Listed - Active
84434-11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	Not Listed
Trade Secret	Colorant	Listed - Active
Trade Secret	Methacrylate monomer(s)	Listed - Active

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

Trade Secret	Colorant	Listed
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New Jersey Right to Know:

Trade Secret	Colorant	Listed
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New York Right to Know:

Trade Secret	Colorant	Listed
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Pennsylvania Right to Know:

Trade Secret	Colorant	Listed
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California Proposition 65:

 **WARNING:** This product can expose you to Titanium dioxide (airborne, unbound particles of respirable size); which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Additional information: No additional information.

SECTION 16: Other Information

Disclaimer:

This product has been classified in accordance with OSHA HCS 2024 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0

HMIS: 0-0-0

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Revision Notes:

Revision Date	Notes
2026-08-18	Version 1.1 - supersedes Version 1.0

End of Safety Data Sheet