

SECTION 1 - Product and Company Identification

Manufacturer: E.I. du Pont de Nemours & Co.
Du Pont Performance Coatings
Wilmington, DE, 19898

Telephone: Product information: (800) 441-7515
Medical emergency: (800) 441-3637
Transportation emergency: (800) 424-9300
(CHEMTREC)

Product: **DuPont®ZVH™Tints**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Phthalocyanine green	1328-53-6	None	A 3.0 mg/m3 TWA Respirable Dust A 10.0 mg/m3 TWA inhalable dust O 15.0 mg/m3 TWA Total Dust O 5.0 mg/m3 TWA Respirable Dust

SECTION 2 - Composition/information on ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Acrylic polymer	NotAvail	None	A None O None
Carbon black	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
Deep organic red pigment	2786-76-7	None	A 3.0 mg/m3 TWA Respirable Dust A 10.0 mg/m3 TWA inhalable dust O 15.0 mg/m3 TWA Total Dust O 5.0 mg/m3 TWA Respirable Dust
Diarylide orange	15793-73-4	None	A None O None
Isoindolinone pigment	36888-99-0	None	A None O None
Light lemon yellow oxide pigment	51274-00-1	None	A None O None
Organic yellow primrose	12225-18-2	None	A None O None
Phthalocyanine blue pigment	147-14-8	None	A 10.0 mg/m3 inhalable dust PNOC A 3.0 mg/m3 respirable particulate PNOC O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 TWA Respirable Dust PNOR

Quinacridone pigment	1047-16-1	None	A 10.0 mg/m3 inhalable dust A 3.0 mg/m3 O 15.0 mg/m3 Total Dust PNOR O 5.0 mg/m3 Respirable Dust D 10.0 mg/m3 Total Dust
Red iron oxide light	1332-37-2	None	A 10.0 mg/m3 PNOR A 3.0 mg/m3 Respirable Dust A 5.0 mg/m3 Fe O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Surfactant	NotAvail	None	A None O None
Titanium dioxide	13463-67-7	None	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
Water	7732-18-5	23.6	A None O None

*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @20°C unless otherwise noted.

SECTION 3 - Hazards identification

Potential Health Effects:

Inhalation:

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion:

May result in gastrointestinal distress

Skin or Eye Contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Other Potential Health Effects in addition to those listed above:**Acrylic polymer**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin.

Carbon black

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease.

WARNING: This chemical is known to the State of California to cause cancer.

Diarylide orange

No known hazard with normal industrial use

Organic yellow primrose

Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. May cause eye irritation with discomfort, tearing, or blurred vision. Ingestion may cause any of the following: dizziness, gastrointestinal irritation. Inhalation of high vapor concentrations may cause any of the following: dizziness, drowsiness, irritation to the nose, irritation to throat.

Red iron oxide light

Long-term respiratory exposure of iron oxide may result in deposition of particles in the lung (benign siderosis).

Titanium dioxide

In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m³ respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m³ level are not relevant to the workplace.

SECTION 4 - First aid measures**First Aid Procedures:****Inhalation:**

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

Ingestion:

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.

Skin or Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

SECTION 5 - Fire-fighting measures**Flash Point (Closed Cup): See Section 11 for exact values**

Flammable Limits: LFL 0% UFL 0%

Extinguishing Media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Fire Fighting Procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

Fire and Explosion Hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

SECTION 6 - Accidental release measures**Steps to be taken in case material is released or spilled:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

SECTION 7 - Handling and storage**Precautions to be taken in handling and storing:**

Observe label precautions. If combustible (flashpoint between 100-200 °F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 °F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 °F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 °F. If product is waterbased do not freeze.

Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation, and gloves.

SECTION 8 - Exposure controls / personal protection**Engineering controls and work practices:****Ventilation:**

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Respiratory protection

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Skin protection

Neoprene gloves and coveralls are recommended.

Eye protection

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

SECTION 9 - Physical and chemical properties

Evaporation rate	Slower than Ether
Solubility in Water	No Data Available
Vapor Pressure	Heavier than air
Approx. Boiling Range(°C)	No Data Available
Approx. Freezing Range(°C)	No Data Available
Gallon weight (lbs/gal)	9.26 - 17.01
Specific Gravity	1.11 - 2.04
Percent Volatile by Volume	55.20 - 78.19
Percent Volatile by Weight	27.00 - 68.50
Percent Solid by Volume	21.81 - 44.80
Percent Solid by Weight	31.50 - 73.00

SECTION 10 - Stability and reactivity

Stability:

Stable

Incompatibility (materials to avoid):

None reasonably foreseeable

Hazardous Decomposition Products:CO, CO₂, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.**Hazardous Polymerization:**

Will not occur.

Sensitivity to Static Discharge:

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to Mechanical Impact:

None known

SECTION 11 - Additional Information

Product Code Ingredients (Product Specific)

7003P™ Acrylic polymer(2.8%), Surfactant(2.2%), Titanium dioxide(68.0%), Water(27.0%)
GAL WT: 17.01 WT PCT SOLIDS: 73.00 VOL PCT SOLIDS: 44.80
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7115P™ Acrylic polymer(5.3%), Quinacridone pigment(40.0%), Surfactant(1.7%), Water(53.0%)
GAL WT: 9.60 WT PCT SOLIDS: 47.00 VOL PCT SOLIDS: 38.88
SOLVENT DENSITY: 8.33 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7292P™ Acrylic polymer(2.7%), Phthalocyanine blue pigment(40.0%), Surfactant(1.8%), Water(55.5%)
GAL WT: 10.00 WT PCT SOLIDS: 44.50 VOL PCT SOLIDS: 33.24
SOLVENT DENSITY: 8.31 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7345P™ Carbon black(25.0%), Surfactant(6.5%), Water(68.5%)
GAL WT: 9.50 WT PCT SOLIDS: 31.50 VOL PCT SOLIDS: 21.81
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 2 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7401P™ Acrylic polymer(6.3%), Organic yellow primrose(35.0%), Surfactant(2.2%), Water(56.5%)
GAL WT: 9.40 WT PCT SOLIDS: 43.50 VOL PCT SOLIDS: 36.18
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7451P™ Acrylic polymer(2.9%), Light lemon yellow oxide pigment(60.0%), Surfactant(3.1%), Water(34.0%)
GAL WT: 15.41 WT PCT SOLIDS: 66.00 VOL PCT SOLIDS: 37.03
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7466P™ Acrylic polymer(5.2%), Isoindolinone pigment(25.0%), Surfactant(5.3%), Water(64.5%)

GAL WT: 9.30 WT PCT SOLIDS: 35.50 VOL PCT SOLIDS: 27.92
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7610P™ Acrylic polymer(4.3%), Red iron oxide light(60.0%), Surfactant(5.2%), Water(30.5%)
GAL WT: 16.39 WT PCT SOLIDS: 69.50 VOL PCT SOLIDS: 39.81
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7619P™ Acrylic polymer(3.5%), Diarylide orange(45.0%), Surfactant(3.0%), Water(48.5%)
GAL WT: 9.50 WT PCT SOLIDS: 51.50 VOL PCT SOLIDS: 43.43
SOLVENT DENSITY: 8.02 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7625P™ Acrylic polymer(3.5%), Quinacridone pigment(30.0%), Surfactant(2.3%), Water(64.2%)
GAL WT: 9.26 WT PCT SOLIDS: 35.80 VOL PCT SOLIDS: 28.51
SOLVENT DENSITY: 8.31 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7673P™ Acrylic polymer(7.3%), Deep organic red pigment(35.0%), Surfactant(2.7%), Water(55.0%)
GAL WT: 9.30 WT PCT SOLIDS: 45.00 VOL PCT SOLIDS: 38.54
SOLVENT DENSITY: 8.33 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

7703P™ Acrylic polymer(4.3%), Phthalocyanine green(41.0%), Surfactant(2.7%), Water(52.0%)
GAL WT: 10.80 WT PCT SOLIDS: 48.00 VOL PCT SOLIDS: 32.51
SOLVENT DENSITY: 8.32 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Above 200° F H: 1 F: 1 R: 0 OSHA STORAGE: IIIIB
TSCA STATUS: In Compliance PHOTO-CHEMICALLY REACTIVE: NO

Footnotes:

TSCA: in compliance = In compliance with TSCA Inventory requirements for commercial purposes.

ACGIH = American Conference of Government Industrial Hygienists.

IARC = International agency for Research on Cancer.

NTP = National Toxicology Program.

OSHA = Occupational Safety and Health Administration.

PNOR = Particles Not Otherwise Regulated.

PNOC = Particles Not Otherwise Classified.

STEL = Short Term Exposure Limit.

TWA = Time Weighted Average.

TM = Is a Trademark of E.I. du Pont de Nemours & Co.

* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Clean Air Act Hazardous Air Pollutant.

= EPCRA Section 302 - Extremely Hazardous Substance.

NOTICE:

The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales
Prepared by: HazCom Coordinator