

## DuPont Performance Coatings Material Safety Data Sheet Imron® Polyurethane Enamel Tints

**SECTION 1 - Product and Company Identification**

Manufacturer:	E.I. du Pont de Nemours & Co. du Pont Performance Coatings Wilmington, DE, 19898	CARBON BLACK	1333-86-4	None	O 150.0 ppm A 3.5 mg/m <sup>3</sup> O 3.5 mg/m <sup>3</sup> D 0.5 mg/m <sup>3</sup> 8 & 12 hour TWA
Telephone:	Product Information: (800) 441-7515 Medical Emergency: (800) 441-3637 Transportation Emergency: (800) 424-9300 (CHEMTREC)	CELLULOSE ACETATE BUTYRATE	9004-36-8	None	A None O None
Product:	<b>IMRON® POLYURETHANE ENAMEL TINTS</b>				
DOT Shipping Name:	See DOT addendum.	CHROME-ANTIMONY TITANATE	68186-90-3	None	A 0.5 mg/m <sup>3</sup> Cr O 1.0 mg/m <sup>3</sup> Cr A 0.5 mg/m <sup>3</sup> Sb O 0.5 mg/m <sup>3</sup> Sb
Hazardous Materials Information:	See Section 10.				

**SECTION 2 - Composition, Information on Ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS			
ACRYLIC POLYMER-A	25067-83-8	None	A None O None	DIOXAZINE CARBOZOLE PIGMENT	4378-61-4	None A 10.0 mg/m <sup>3</sup> O 15.0 mg/m <sup>3</sup> O 5.0 mg/m <sup>3</sup> Respirable
ACRYLIC POLYMER-B	70942-12-0	None	A None O None	ETHYL ACETATE	141-78-6	76.0 A 400.0 ppm O 400.0 ppm
ACRYLIC POLYMER-C	80010-53-3	None	A None O None	ETHYLBENZENE	100-41-4	7.0 A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
ALUMINUM	7429-90-5	None	A 10.0 mg/m <sup>3</sup> O 5.0 mg/m <sup>3</sup> Respirable O 15.0 mg/m <sup>3</sup> Total Dust	IRON OXIDE	1309-37-1	None A 5.0 mg/m <sup>3</sup> O 10.0 mg/m <sup>3</sup>
AMORPHOUS SILICA	7631-86-9	None	A 1.0 mg/m <sup>3</sup> 15 min STEL D 3.0 mg/m <sup>3</sup> 8 hr PEL O 6.0 mg/m <sup>3</sup> A 10.0 mg/m <sup>3</sup> Total Dust	ISOINDOLINONE PIGMENT-A	36888-99-0	None A None O None
AROMATIC HYDROCARBON	64742-95-6	10.0 @ 25.0°C	D 50.0 ppm A None O None	ISOINDOLINONE PIGMENT-B	106276-80-6	None A None O None
BUTYL ACETATE	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm	LEAD CHROMATE	18454-12-1	None A 12.0 ug/m <sup>3</sup> Cr O 0.1 mg/m <sup>3</sup> CEIL CrO3

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			A 50.0 ug/m <sup>3</sup> Pb				O None
			O 50.0 ug/m <sup>3</sup> Pb	NICKEL, ANTIMONY, TITANIUM YELLOW PIGMENT 8007-18-9		None	A 0.2 mg/m <sup>3</sup> Ni
LEAD CHROMATE MOLYBDATE	12656-85-8	None	A 12.0 ug/m <sup>3</sup> Cr				O 1.0 mg/m <sup>3</sup> Ni
			O 0.1 mg/m <sup>3</sup> CEIL CrO3				D 20.0 ug/m <sup>3</sup> 8 & 12 hour TWA
			A 50.0 ug/m <sup>3</sup> Pb				Ni
			O 50.0 ug/m <sup>3</sup> Pb				A 0.5 mg/m <sup>3</sup> Sb
			A 10.0 mg/m <sup>3</sup> Inhalable Particulate Mo	PETROLEUM NAPHTHA 64742-48-9		3.3 @ 68.0°F	O 0.5 mg/m <sup>3</sup> Sb
			A 3.0 mg/m <sup>3</sup> Respirable Particulate Mo	PTHALOCYANINE BLUE PIGMENT 147-14-8		None	A None O None
MEDIUM MINERAL SPIRITS	64742-88-7	10.0	D 100.0 ppm A None O None				O 5.0 mg/m <sup>3</sup> TWA Respirable PNOR
METHYL AMYL KETONE	110-43-0	2.8	A 50.0 ppm O 100.0 ppm				O 15.0 mg/m <sup>3</sup> Total Dust PNOR
MONOAZO PIGMENT	12236-62-3	None	A 10.0 mg/m <sup>3</sup> Inhalable Particulate Particulate O None	PTHALOCYANINE GREEN PIGMENT 14302-13-7		None	A 10.0 mg/m <sup>3</sup> Inhalable Particulate PNOC
N-BUTYL ALCOHOL	71-36-3	4.2 @ 68.0°F	D 50.0 ppm 15 min TWA D 25.0 ppm A 50.0 ppm CEIL Skin O 50.0 ppm CEIL Skin	PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE 108-65-6		3.7	A 3.0 mg/m <sup>3</sup> Respirable Particulate PNOC
				QUINACRIDONE PIGMENT 1047-16-1		None	A 10.0 mg/m <sup>3</sup> Inhalable Particulate A 3.0 mg/m <sup>3</sup> Respirable Particulate PNOC
NICKEL AZO COMPLEX	51931-46-5	None	A 0.2 mg/m <sup>3</sup> Ni O 1.0 mg/m <sup>3</sup> Ni				O 15.0 mg/m <sup>3</sup> Total Dust PNOR
NICKEL OXIDE	1313-99-1	None	A 0.2 mg/m <sup>3</sup> Ni D 20.0 ug/m <sup>3</sup> 8 & 12 hour TWA Ni	RED IRON OXIDE LIGHT 1332-37-2		None	A 10.0 mg/m <sup>3</sup> Inhalable Particulate A 3.0 mg/m <sup>3</sup> Respirable Particulate
				STODDARD SOLVENT 8052-41-3		None	A 5.0 mg/m <sup>3</sup> Dust O None
							O 500.0 ppm

			SECTION 3 - Hazards Information	
			TWA A 100.0 ppm D 50.0 ppm 8 & 12 hour TWA	<b>Potential Health Effects:</b> <b>Inhalation:</b> 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.
SUBSTITUTED BENZOTRIAZOLE	25973-55-1	None	A None O None	<b>Ingestion:</b> May result in gastrointestinal distress. <b>Skin or eye contact:</b> May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.
TITANIUM DIOXIDE	13463-67-7	None	A 10.0 mg/m <sup>3</sup> D 5.0 mg/m <sup>3</sup> Respirable D 10.0 mg/m <sup>3</sup> Total Dust D 5.0 mg/m <sup>3</sup> Respirable Dust O 15.0 mg/m <sup>3</sup> Total Dust SiO <sub>2</sub>	<b>Other Potential Health Effects in addition to those listed above:</b> <b>ALUMINUM</b> Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision.
TOLUENE	108-88-3	22.0	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA A 50.0 ppm Skin O 500.0 ppm 10 min TWA Maximum	<b>AROMATIC HYDROCARBON</b> Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.
VM&P NAPHTHA	64742-89-8	12.0	O 400.0 ppm 15 min STEL D 100.0 ppm A 300.0 ppm O 300.0 ppm	<b>BUTYL ACETATE</b> May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system May cause eye irritation with discomfort, tearing, or blurred vision. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.
XYLENE	1330-20-7	9.0 @ 25.0°C	A 150.0 ppm 15 min STEL D 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 100.0 ppm 8 & 12 hour TWA	<b>CARBON BLACK</b> Is an IARC, NTP or OSHA carcinogen. <b>CHROME-ANTIMONY TITANATE</b> May cause irritation of the mucous membranes. Repeated and prolonged overexposure may lead to chronic lung disease. Antimony and chromium are incorporated into the crystal structure of titanium dioxide. As such they are chemically and biologically inert.
YELLOW IRON OXIDE	51274-00-1	None	A 5.0 mg/m <sup>3</sup> O 10.0 ppm	<b>ETHYL ACETIC ESTER</b> Tests in laboratory animals have shown effects on any of the following organs/systems: blood kidneys liver
1,2,4-TRIMETHYL BENZENE	95-63-6	7.0 @ 44.4°C	A 25.0 ppm O 25.0 ppm	<b>ETHYLBENZENE</b> Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system kidneys liver lungs Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @25°C unless otherwise noted.

**LEAD CHROMATE**

Is an IARC, NTP or OSHA carcinogen.  
Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula:  $\text{limit}(\text{in } \mu\text{g}/\text{m}^3) = 400/\text{hours worked in the day}$ .  
WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm

**LEAD CHROMATE MOLYBDATE**

Is an IARC, NTP or OSHA carcinogen.  
Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula:  $\text{limit}(\text{in } \mu\text{g}/\text{m}^3) = 400/\text{hours worked in the day}$ .  
WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm

**MEDIUM MINERAL SPIRITS**

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**N-BUTYL ALCOHOL**

May cause abnormal blood forming function with anemia.  
Liquid splashes in the eye may result in chemical burns.

**NICKEL AZO COMPLEX**

Is an IARC, NTP or OSHA carcinogen.  
Repeated exposure may cause allergic skin rash, itching, swelling.  
WARNING: This chemical is known to the State of California to cause cancer.

**NICKEL OXIDE**

Is an IARC, NTP or OSHA carcinogen.  
WARNING: This chemical is known to the State of California to cause cancer.

**NICKEL, ANTIMONY, TITANIUM YELLOW PIGMENT**

Is an IARC, NTP or OSHA carcinogen.  
WARNING: This chemical is known to the State of California to cause cancer.

**PETROLEUM NAPHTHA**

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE**

May cause eye irritation with discomfort, tearing, or blurred vision.  
May cause moderate eye burning.  
Recurrent overexposure may result in liver and kidney injury.  
May cause irritation of the upper respiratory passages.

**RED IRON OXIDE LIGHT**

Repeated or prolonged skin or eye contact may cause any of the following: mechanical irritation

**STODDARD SOLVENT**

The following medical conditions may be aggravated by exposure: asthma skin disorders  
Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**TITANIUM DIOXIDE**

In a lifetime inhalation test, lung cancers were found in some rats exposed to 250-mg/m<sup>3</sup> 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/m<sup>3</sup> level are not relevant to the workplace.

**TOLUENE**

Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system kidneys liver respiratory system skin  
May cause eye irritation with discomfort, tearing, or blurred vision.  
Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed.  
WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

**VM&P NAPHTHA**

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

**XYLENE**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow cardiovascular system central nervous system kidneys liver lungs  
Can be absorbed through the skin in harmful amounts.  
Can irritate or burn eyes. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heartbeats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

**YELLOW IRON OXIDE**

Eye contact may cause any of the following: mechanical irritation

**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:**

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 - Firefighting Measures**

**Flash Point (Closed Cup)** See Section 11 for exact values.

**Flammable limits** LFL 0.0 % UFL 13.1 %

**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 & 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 or Personal Protection**

**Engineering controls and work practices:**

**Ventilation:**

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

**Respiratory:**

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 clothing:**

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	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	No Data Available
Approx. freezing range (°C)	-92 - -83°(C)
Gallon weight (lbs./gal)	8.14 - 11.50
Specific gravity	0.98 - 1.38
Percent volatile by volume	51.11 - 70.33
Percent volatile by weight	42.81 - 65.00
Percent solids by volume	29.67 - 48.89
Percent solids by weight	35.00 - 57.19

**SECTION 10 - Stability and Reactivity**

**Stability:**

Stable

**Incompatibility (materials to avoid):**

None reasonably foreseeable

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, 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°F) and combustibles (flashpoint between 100-200°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:**

Not Applicable

**SECTION 11 - Additional Information**

**PRODUCT CODE**

**INGREDIENTS (Product Specific)**

520U™ Acrylic Polymer-A, Aluminum (10%\*), Aromatic Hydrocarbon, Ethylbenzene (0.9%\*@), Medium Mineral Spirits, N-Butyl Alcohol (3%\*), Petroleum Naphtha, Propylene Glycol Monomethyl Ether Acetate, Xylene (4-5%\*@)

GAL WT: 8.64 WT PCT SOLIDS: 47.74 VOL PCT SOLIDS: 39.33

SOLVENT DENSITY: 7.44 VOC LE: 4.5 VOC AP: 4.5

FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 1 OSHA STORAGE: IC

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**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES**

**521U™** Acrylic Polymer-A, Aluminum (14%\*), Butyl Acetate, Ethylbenzene (0.9%\*<sup>@</sup>), Medium Mineral Spirits, N-Butyl Alcohol (3%\*), Petroleum Naphtha, Propylene Glycol Monomethyl Ether Acetate, Xylene (4-5%\*<sup>@</sup>)  
**GAL WT: 8.74 WT PCT SOLIDS: 49.42 VOL PCT SOLIDS: 39.03**  
**SOLVENT DENSITY: 7.25 VOC LE: 4.4 VOC AP: 4.4**  
**FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES**

**522U™** Acrylic Polymer-A, Aluminum (25%\*), Aromatic Hydrocarbon, Butyl Acetate, N-Butyl Alcohol (2%\*), Petroleum Naphtha, Propylene Glycol Monomethyl Ether Acetate, Stoddard Solvent, 1,2,4-Trimethyl Benzene (3-5%\*)  
**GAL WT: 9.32 WT PCT SOLIDS: 51.04 VOL PCT SOLIDS: 38.91**  
**SOLVENT DENSITY: 7.46 VOC LE: 4.6 VOC AP: 4.6**  
**FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES**

**523U™** Acrylic Polymer-A, Aluminum (11%\*), Aromatic Hydrocarbon, Ethylbenzene (0.9%\*<sup>@</sup>), Medium Mineral Spirits, N-Butyl Alcohol (3%\*), Petroleum Naphtha, Propylene Glycol Monomethyl Ether Acetate, Xylene (4-5%\*<sup>@</sup>)  
**GAL WT: 8.62 WT PCT SOLIDS: 46.93 VOL PCT SOLIDS: 38.35**  
**SOLVENT DENSITY: 7.42 VOC LE: 4.6 VOC AP: 4.6**  
**FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 1 OSHA STORAGE: IC**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES**

**531U™** Acrylic Polymer-C, Carbon Black (0.1%), Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), Xylene (1-1%\*<sup>@</sup>)  
**GAL WT: 8.36 WT PCT SOLIDS: 35.15 VOL PCT SOLIDS: 30.63**  
**SOLVENT DENSITY: 7.82 VOC LE: 5.4 VOC AP: 5.4**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**532U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Nickel Oxide (1.6%\*<sup>@</sup>), Nickel, Antimony, Titanium (29.9%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 11.17 WT PCT SOLIDS: 57.19 VOL PCT SOLIDS: 39.54**  
**SOLVENT DENSITY: 7.91 VOC LE: 4.8 VOC AP: 4.8**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**533U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Quinacridone Pigment, Toluene (4%\*<sup>@</sup>)  
**GAL WT: 8.60 WT PCT SOLIDS: 38.90 VOL PCT SOLIDS: 33.68**  
**SOLVENT DENSITY: 7.93 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**534U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Monoazo Pigment, Propylene Glycol Monomethyl Ether Acetate, Toluene (11%\*<sup>@</sup>)  
**GAL WT: 8.66 WT PCT SOLIDS: 42.63 VOL PCT SOLIDS: 36.49**  
**SOLVENT DENSITY: 7.83 VOC LE: 5.0 VOC AP: 5.0**

**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES**

**535U™** Acrylic Polymer-C, Butyl Acetate, Carbon Black (1.5%), Ethyl Acetic Ester, Ethylbenzene (0.7%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), Xylene (3-4%\*<sup>@</sup>)  
**GAL WT: 8.31 WT PCT SOLIDS: 37.05 VOL PCT SOLIDS: 32.03**  
**SOLVENT DENSITY: 7.70 VOC LE: 5.2 VOC AP: 5.2**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**536U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Red Iron Oxide Light, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 9.29 WT PCT SOLIDS: 43.25 VOL PCT SOLIDS: 32.73**  
**SOLVENT DENSITY: 7.84 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**537U™** Acrylic Polymer-C, Chrome-Antimony Titanate (21%\*<sup>@</sup>), Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (4%\*<sup>@</sup>)  
**GAL WT: 10.09 WT PCT SOLIDS: 49.60 VOL PCT SOLIDS: 35.55**  
**SOLVENT DENSITY: 7.89 VOC LE: 5.1 VOC AP: 5.1**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**539U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Monoazo Pigment, Propylene Glycol Monomethyl Ether Acetate, Toluene (4%\*<sup>@</sup>)  
**GAL WT: 8.76 WT PCT SOLIDS: 42.81 VOL PCT SOLIDS: 36.67**  
**SOLVENT DENSITY: 7.92 VOC LE: 5.0 VOC AP: 5.0**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**540U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Monoazo Pigment, Propylene Glycol Monomethyl Ether Acetate, Toluene (4%\*<sup>@</sup>)  
**GAL WT: 8.71 WT PCT SOLIDS: 42.62 VOL PCT SOLIDS: 36.18**  
**SOLVENT DENSITY: 7.83 VOC LE: 5.0 VOC AP: 5.0**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**541U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Isoindolinone Pigment-A, Propylene Glycol Monomethyl Ether Acetate, Toluene (4%\*<sup>@</sup>), Xylene (1-1%\*<sup>@</sup>)  
**GAL WT: 8.93 WT PCT SOLIDS: 43.59 VOL PCT SOLIDS: 36.20**  
**SOLVENT DENSITY: 7.90 VOC LE: 5.0 VOC AP: 5.0**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**543U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Isoindolinone Pigment-B, Propylene Glycol Monomethyl Ether Acetate, Toluene (4%\*<sup>@</sup>)  
**GAL WT: 8.81 WT PCT SOLIDS: 42.47 VOL PCT SOLIDS: 35.98**  
**SOLVENT DENSITY: 7.92 VOC LE: 5.1 VOC AP: 5.1**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

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**544U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Monoazo Pigment, Propylene Glycol Monomethyl Ether Acetate, Toluene (7%\*<sup>@</sup>)  
**GAL WT: 8.52 WT PCT SOLIDS: 41.76 VOL PCT SOLIDS: 36.62**  
**SOLVENT DENSITY: 7.83 VOC LE: 5.0 VOC AP: 5.0**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**547U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Lead Chromate Molybdate (32.1%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (2%\*<sup>@</sup>)  
**GAL WT: 11.50 WT PCT SOLIDS: 57.18 VOL PCT SOLIDS: 38.01**  
**SOLVENT DENSITY: 7.95 VOC LE: 4.9 VOC AP: 4.9**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**548U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Lead Chromate (20.1%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), Xylene (1-1%\*<sup>@</sup>)  
**GAL WT: 10.16 WT PCT SOLIDS: 49.61 VOL PCT SOLIDS: 35.29**  
**SOLVENT DENSITY: 7.91 VOC LE: 5.1 VOC AP: 5.1**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**550U™** Acrylic Polymer-C, Aluminum (2%\*), Cab (1.2%), Ethyl Acetic Ester, Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), VM&P Naphtha  
**GAL WT: 8.28 WT PCT SOLIDS: 37.06 VOL PCT SOLIDS: 31.05**  
**SOLVENT DENSITY: 7.56 VOC LE: 5.2 VOC AP: 5.2**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**553U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Quinacridone Pigment, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 8.54 WT PCT SOLIDS: 37.91 VOL PCT SOLIDS: 32.83**  
**SOLVENT DENSITY: 7.89 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**554U™** Acrylic Polymer-C, Amorphous Silica, Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Titanium Dioxide, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 10.42 WT PCT SOLIDS: 52.95 VOL PCT SOLIDS: 38.07**  
**SOLVENT DENSITY: 7.92 VOC LE: 4.9 VOC AP: 4.9**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**555U™** Acrylic Polymer-C, Amorphous Silica, Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Titanium Dioxide, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 10.59 WT PCT SOLIDS: 54.20 VOL PCT SOLIDS: 38.74**  
**SOLVENT DENSITY: 7.92 VOC LE: 4.8 VOC AP: 4.8**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**556U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), Yellow Iron Oxide

**GAL WT: 9.77 WT PCT SOLIDS: 47.54 VOL PCT SOLIDS: 35.21**  
**SOLVENT DENSITY: 7.91 VOC LE: 5.1 VOC AP: 5.1**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**557U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Quinacridone Pigment, Toluene (3%\*<sup>@</sup>), Xylene (2-2%\*<sup>@</sup>)  
**GAL WT: 8.56 WT PCT SOLIDS: 38.14 VOL PCT SOLIDS: 33.28**  
**SOLVENT DENSITY: 7.94 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**558U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Quinacridone Pigment, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 8.46 WT PCT SOLIDS: 36.50 VOL PCT SOLIDS: 31.75**  
**SOLVENT DENSITY: 7.87 VOC LE: 5.4 VOC AP: 5.4**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**559U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Methyl Amyl Ketone, Phthalocyanine Blue Pigment, Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), Xylene (2-2%\*<sup>@</sup>)  
**GAL WT: 8.48 WT PCT SOLIDS: 38.00 VOL PCT SOLIDS: 32.61**  
**SOLVENT DENSITY: 7.91 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**560U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Lead Chromate (16.3%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 9.63 WT PCT SOLIDS: 46.33 VOL PCT SOLIDS: 33.70**  
**SOLVENT DENSITY: 7.80 VOC LE: 5.2 VOC AP: 5.2**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**561U™** Acrylic Polymer-C, Butyl Acetate, Ethyl Acetic Ester, Ethylbenzene (0.3%\*<sup>@</sup>), Phthalocyanine Green Pigment, Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), Xylene (3-4%\*<sup>@</sup>)  
**GAL WT: 8.59 WT PCT SOLIDS: 38.50 VOL PCT SOLIDS: 32.33**  
**SOLVENT DENSITY: 7.81 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**562U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.1-0.2%\*<sup>@</sup>), Nickel Azo Complex (6.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 8.58 WT PCT SOLIDS: 39.38 VOL PCT SOLIDS: 33.69**  
**SOLVENT DENSITY: 7.85 VOC LE: 5.2 VOC AP: 5.2**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IA**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**563U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Iron Oxide, Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), VM&P Naphtha, Xylene (1-1%\*<sup>@</sup>)

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**GAL WT: 8.51 WT PCT SOLIDS: 38.02 VOL PCT SOLIDS: 30.59 SOLVENT DENSITY: 7.60 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**564U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Iron Oxide, Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), VM&P Naphtha, Xylene (1-1%\*<sup>@</sup>)  
**GAL WT: 8.65 WT PCT SOLIDS: 39.59 VOL PCT SOLIDS: 31.54**  
**SOLVENT DENSITY: 7.64 VOC LE: 5.2 VOC AP: 5.2**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**565U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Quinacridone Pigment, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 8.54 WT PCT SOLIDS: 36.42 VOL PCT SOLIDS: 31.64**  
**SOLVENT DENSITY: 7.95 VOC LE: 5.4 VOC AP: 5.4**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**567U™** Acrylic Polymer-C, Dioxazine Carbozole Pigment, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 8.39 WT PCT SOLIDS: 35.81 VOL PCT SOLIDS: 31.13**  
**SOLVENT DENSITY: 7.82 VOC LE: 5.4 VOC AP: 5.4**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**568U™** Acrylic Polymer-C, Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Phthalocyanine Blue Pigment, Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>)  
**GAL WT: 8.61 WT PCT SOLIDS: 37.82 VOL PCT SOLIDS: 32.48**  
**SOLVENT DENSITY: 7.94 VOC LE: 5.4 VOC AP: 5.4**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**570U™** Acrylic Polymer-B, Butyl Acetate, Ethyl Acetic Ester, Ethylbenzene (0.2%\*<sup>@</sup>), Methyl Amyl Ketone, Propylene Glycol Monomethyl Ether Acetate, Substituted Benzotriazole, Toluene (3%\*<sup>@</sup>), Xylene (1-1%\*<sup>@</sup>)  
**GAL WT: 8.17 WT PCT SOLIDS: 55.46 VOL PCT SOLIDS: 48.89**  
**SOLVENT DENSITY: 7.13 VOC LE: 3.6 VOC AP: 3.6**  
**FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**571U™** Acrylic Polymer-C, Cab (1.7%), Ethyl Acetic Ester, Ethylbenzene (0.1%\*<sup>@</sup>), Propylene Glycol Monomethyl Ether Acetate, Toluene (3%\*<sup>@</sup>), VM&P Naphtha  
**GAL WT: 8.14 WT PCT SOLIDS: 35.00 VOL PCT SOLIDS: 29.67**  
**SOLVENT DENSITY: 7.53 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

**572U™** Acrylic Polymer-C, Cab (1.4%), Ethyl Acetic Ester, Propylene Glycol Monomethyl Ether Acetate, Toluene (5%\*<sup>@</sup>), VM&P Naphtha

**GAL WT: 8.15 WT PCT SOLIDS: 35.44 VOL PCT SOLIDS: 30.19**  
**SOLVENT DENSITY: 7.54 VOC LE: 5.3 VOC AP: 5.3**  
**FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY 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.

**™** = Is a Trademark of E.I. DuPont 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: E. L. Taylor**