

1. Identification of the substance/mixture and of the company/undertaking

Manufacturer: E. I. du Pont de Nemours and Company.
DuPont Performance Coatings
Wilmington, DE 19898

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

Product: **Imron® Activators and Additives**

DOT Shipping Name: See DOT Addendum.

Hazardous Materials Information: See Section 10.

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2. Composition/information on ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
1,2,4-trimethyl benzene	95-63-6	7.0@44.4 °C	A 25.0 ppm, O 25.0 ppm
1,3-propanediol, homo polymer	345260-48-2	None	A None, O None
1,6-hexamethylene diisocyanate	822-06-0	0.0@25.0 °C	A 5.0 ppb, O None
2,4-pentanedione	123-54-6	9.0	A 25.0 ppm Skin, D 5.0 ppm 8 & 12 hour TWA, O None
2-ethylhexyl acetate	103-09-3	0.5	A None, O None
4-chlorobenzotrifluoride	98-56-6	7.6@25.0 °C	D 20.0 ppm 8 & 12 hour TWA, A None, O None
Acetone	67-64-1	247.0@68.0 °F	A 750.0 ppm 15 min STEL, A 500.0 ppm, O 1000.0 ppm, D 500.0 ppm 8 & 12 hour TWA
Acrylic polymer	NotAvail	None	A None, O None
Aliphatic polyisocyanate resin	28182-81-2	None	S 0.5 mg/m3, A None, O None
Aluminum hydroxide	21645-51-2	None	A 1.0 mg/m3, O None
Amorphous silica	7631-86-9	None	A 3.0 mg/m3 Respirable Dust, O 20.0 mppcf, D 3.0 mg/m3, D 6.0 mg/m3
Aromatic hydrocarbon	64742-95-6	10.0@25.0 °C	D 50.0 ppm, A None, O None
Butyl acetate	123-86-4	10.0	A 200.0 ppm 15 min STEL, A 150.0 ppm, O 150.0 ppm
C.i. pigment red 254	84632-65-5	None	A None, O None
C.i. pigment yellow 154	68134-22-5	None	A None, O None
Carbon black	1333-86-4	None	A 3.0 mg/m3, O 3.5 mg/m3, D 0.5 mg/m3 8 & 12 hour TWA
Dibutyl tin dilaurate	77-58-7	<10.0	A 0.2 mg/m3 15 min STEL Sn, A 0.1 mg/m3 Sn, O 0.1 mg/m3 Sn
Ethyl acetate	141-78-6	93.2@25.0 °C	A 400.0 ppm, O 400.0 ppm
Ethylbenzene	100-41-4	7.0	A 20.0 ppm, O 100.0 ppm, D 25.0 ppm 8 & 12 hour TWA
Ethylene glycol monobutyl ether acetate	112-07-2	0.3	A 20.0 ppm, D 20.0 ppm 8 & 12 hour TWA, O None
Iron hydroxide	20344-49-4	None	A None, O None
Iron oxide	1309-37-1	None	A 5.0 mg/m3 Respirable Dust, O 10.0 mg/m3, D 3.0 mg/m3
Isoindolinone pigment	36888-99-0	None	A None, O None
Methyl acetate	79-20-9	171.3@68.0 °F	A 250.0 ppm 15 min STEL, A 200.0 ppm, O 200.0 ppm
Monoazo pigment	12236-62-3	None	A 10.0 mg/m3 inhalable dust particulate, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust
Organotin compound	NotAvail	None	A 0.1 mg/m3 Skin Sn, O 0.1 mg/m3 Skin Sn
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
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
Polyester resin	129922-22-1	None	A None, O None
Polyisocyanate	28182-81-2	None	A None, O None
Polyisocyanate based on hdi	NotAvail	None	A None, O None
Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 30.0 ppm 15 min TWA, A None, O None
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
Reactive diluent e	NotAvail	None	A None, O None
Silicone resin	9016-00-6	7.0	A None, O None

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
T-butyl acetate	540-88-5	None	A 200.0 ppm, O 200.0 ppm
Titanium dioxide	13463-67-7	None	O 15.0 mg/m ³ Total Dust, D 10.0 mg/m ³ 8 & 12 hour TWA Total Dust, D 5.0 mg/m ³ 8 & 12 hour TWA Respirable Dust, A None
Xylene	1330-20-7	8.0@25.0 °C	A 150.0 ppm 15 min STEL, A 100.0 ppm, O 100.0 ppm, D 150.0 ppm 15 min STEL, D 100.0 ppm 8 & 12 hour TWA

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

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. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

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:

1,6-hexamethylene diisocyanate

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. The following medical conditions may be aggravated by exposure: asthma, skin disorders, respiratory disorders.

Overexposure may cause damage to any of the following organs/systems: lungs, skin. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin.

2,4-pentanedione

2,4-pentanedione, a component of this product, is regulated by the U.S. EPA, under a significant new use rule. It is a violation of federal law to sell or use this product in consumer applications, including to private individuals, schools, and vocational schools. Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system, and the red blood cell forming system. No effect was seen at 100 ppm. The odor is disagreeable at a few ppm. Repeated or prolonged skin contact may cause any of the following: skin sensitization. Skin or eye contact may cause any of the following: irritation. Overexposure of this substance may cause effects on any of the following organs/systems: central nervous system, lungs, upper respiratory system, thymus.

4-chlorobenzotrifluoride

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin. Prolonged or repeated exposure may cause damage to any of the following organs/systems: kidneys, liver, thyroid. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Ingestion may cause any of the following: gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury. Inhalation may cause any of the following: stupor (central nervous system depression), respiratory tract irritation.

Acetone

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

Aliphatic polyisocyanate resin

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. The following medical conditions may be aggravated by exposure: asthma, skin disorders, respiratory disorders. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin.

Aromatic hydrocarbon

The following medical conditions may be aggravated by exposure: 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.

Butyl acetate

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. 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.

C.i. pigment yellow 154

Inhalation may cause any of the following: respiratory tract irritation. Skin or eye contact may cause any of the following: irritation.

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.

Ethyl acetate

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

Ethylbenzene

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

Ethylene glycol monobutyl ether acetate

May destroy red blood cells. May cause abnormal kidney function. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. The following medical conditions may be aggravated by exposure: central nervous system, gastrointestinal system, kidneys, liver, dermatitis. Can be absorbed through the skin in harmful amounts. Overexposure may cause damage to any of the following organs/systems: blood, kidneys, liver. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

Polyisocyanate

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. The following medical conditions may be aggravated by exposure: asthma, skin disorders, respiratory disorders. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin.

Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

T-butyl acetate

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, eyes, gastrointestinal system, liver, skin.

Titanium dioxide

Is an IARC, NTP or OSHA carcinogen. 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. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

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. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. 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. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

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.

5. Fire-fighting measures

Flash Point (Closed Cup):

See Section 11 for exact values.

Flammable Limits: LFL 0.9 % UFL 11.6 %

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.

6. Accidental release measures

Procedures for cleaning up spills or leaks:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: 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. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly.

Ecological information:

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

7. Handling and storage

Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 38-93 deg C or 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 38 deg C or 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than - 8 deg C or 20 deg 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 49 deg C or 120 deg 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 air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654).

8. Exposure controls/personal protection

Ventilation:

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

Respiratory protection:

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied- air respirator (NIOSH approved TC-19C) during spray application (or brush and roll application in poorly ventilated areas) and until all vapors and spray mist are exhausted. For mixing and brush and roll application in well ventilated areas or, if the product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) may be used until all vapors are exhausted. In addition, for spray application when product does not contain or is not mixed with an isocyanate activator/hardener, a particulate filter (NIOSH TC-84A) is needed with the organic vapor cartridges until all vapors and spray mist are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

Protective equipment:

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

Skin and body protection:

Neoprene gloves and coveralls are recommended.

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

9. Physical and chemical properties

Evaporation rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range (°C)	77 – 220 °C
Approx. Freezing Range (°C)	-84 °C
Gallon Weight (lbs/gal)	7.24381 - 11.1495
Specific Gravity	0.87 - 1.34
Percent Volatile By Volume	0.19 - 100.00
Percent Volatile By Weight	0.00 - 99.73
Percent Solids By Volume	0.00 - 99.82
Percent Solids By Weight	0.00 - 99.84

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 38 deg C or 100 deg F) and combustibles (flashpoint between 38- 93 deg C or 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.

11. Additional Information

189S™ 2,4-pentanedione(99.7%) GAL WT: 8.14 WT PCT SOLIDS: 0.27 VOL PCT SOLIDS: 0.25 SOLVENT DENSITY: 8.14 VOC LE: 8.1 VOC AP: 8.1 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

193S™ 1,6-hexamethylene diisocyanate(0.1%*@), Aliphatic polyisocyanate resin(74.9%), Butyl acetate(6.9%), Ethyl acetate(13.8%), Ethylene glycol monobutyl ether acetate(4.3%*@) GAL WT: 9.01 WT PCT SOLIDS: 74.99 VOL PCT SOLIDS: 70.05 SOLVENT DENSITY: 7.53 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

389S™ 2,4-pentanedione(99.0%), Dibutyl tin dilaurate(1.0%) GAL WT: 8.14 WT PCT SOLIDS: 1.00 VOL PCT SOLIDS: 0.94 SOLVENT DENSITY: 8.14 VOC LE: 8.1 VOC AP: 8.1 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9M01™ 4-chlorobenzotrifluoride(99.0%) GAL WT: 11.15 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 11.15 VOC LE: 0.0 VOC AP: 0.0 FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9M05™ 4-chlorobenzotrifluoride(93.1%), Silicone resin(1.5%), Xylene(4.5%*@) GAL WT: 10.85 WT PCT SOLIDS: 1.50 VOL PCT SOLIDS: 1.77 SOLVENT DENSITY: 10.88 VOC LE: 5.7 VOC AP: 0.5 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T00-A™ 4-chlorobenzotrifluoride(5.0%), Aliphatic polyisocyanate resin(94.9%) GAL WT: 9.83 WT PCT SOLIDS: 95.00 VOL PCT SOLIDS: 95.59 SOLVENT DENSITY: 11.16 VOC LE: 0.0 VOC AP: 0.0 FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T01™ 4-chlorobenzotrifluoride(6.4%), Acetone(1.2%), Acrylic polymer(23.9%), Aluminum hydroxide(1.0%), Amorphous silica(1.6%), Polyester resin(9.8%), T-butyl acetate(25.5%), Titanium dioxide(26.2%) GAL WT: 10.66 WT PCT SOLIDS: 65.36 VOL PCT SOLIDS: 51.97 SOLVENT DENSITY: 7.68 VOC LE: 3.1 VOC AP: 2.9 VOC LE (TBAC): 0.3 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T02™ 4-chlorobenzotrifluoride(13.0%), Acetone(1.9%), Acrylic polymer(36.0%), Carbon black(1.5%), Polyester resin(15.1%), T-butyl acetate(25.8%) GAL WT: 8.69 WT PCT SOLIDS: 56.67 VOL PCT SOLIDS: 53.22 SOLVENT DENSITY: 8.04 VOC LE: 2.8 VOC AP: 2.4 VOC LE (TBAC): 0.4 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T03™ 4-chlorobenzotrifluoride(1.4%), Acetone(1.6%), Acrylic polymer(35.4%), C.i. pigment yellow 154(10.2%), Polyester resin(15.0%), T-butyl acetate(29.4%) GAL WT: 8.64 WT PCT SOLIDS: 64.69 VOL PCT SOLIDS: 58.10 SOLVENT DENSITY: 7.28 VOC LE: 2.9 VOC AP: 2.8 VOC LE (TBAC): 0.4 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T04™ 4-chlorobenzotrifluoride(9.8%), Acetone(1.9%), Acrylic polymer(33.6%), Polyester resin(12.7%), Quinacridone pigment(8.0%), T-butyl acetate(27.5%) GAL WT: 8.77 WT PCT SOLIDS: 58.57 VOL PCT SOLIDS: 53.63 SOLVENT DENSITY: 7.83 VOC LE: 2.9 VOC AP: 2.6 VOC LE (TBAC): 0.3 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T05™ 4-chlorobenzotrifluoride(15.1%), Acetone(1.4%), Acrylic polymer(32.2%), Isoindolinone pigment(7.4%), Polyester resin(13.2%), T-butyl acetate(24.5%) GAL WT: 8.90 WT PCT SOLIDS: 56.33 VOL PCT SOLIDS: 52.58 SOLVENT DENSITY: 8.20 VOC LE: 2.8 VOC AP: 2.4 VOC LE (TBAC): 0.4 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T06™ 4-chlorobenzotrifluoride(10.3%), Acetone(1.5%), Acrylic polymer(30.0%), C.i. pigment red 254(12.9%), Polyester resin(11.9%), T-butyl acetate(27.8%) GAL WT: 8.90 WT PCT SOLIDS: 58.28 VOL PCT SOLIDS: 52.85 SOLVENT DENSITY: 7.87 VOC LE: 3.0 VOC AP: 2.7 VOC LE (TBAC): 0.3 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T07™ 4-chlorobenzotrifluoride(12.7%), Acetone(1.8%), Acrylic polymer(34.7%), Phthalocyanine blue pigment(4.0%), Polyester resin(14.7%), T-butyl acetate(25.4%) GAL WT: 8.77 WT PCT SOLIDS: 57.73 VOL PCT SOLIDS: 53.92 SOLVENT DENSITY: 8.04 VOC LE: 2.8 VOC AP: 2.4 VOC LE (TBAC): 0.3 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T08™ 4-chlorobenzotrifluoride(8.8%), Acetone(1.2%), Acrylic polymer(29.2%), Iron hydroxide(19.7%), Polyester resin(10.2%), T-butyl acetate(26.3%) GAL WT: 9.95 WT PCT SOLIDS: 61.91 VOL PCT SOLIDS: 51.59 SOLVENT DENSITY: 7.83 VOC LE: 3.1 VOC AP: 2.8 VOC LE (TBAC): 0.3 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

9T09™ 4-chlorobenzotrifluoride(10.9%), Acetone(1.4%), Acrylic polymer(35.6%), Phthalocyanine green(4.3%), Polyester resin(12.5%), T-butyl acetate(28.2%) **GAL WT: 8.75 WT PCT SOLIDS: 56.27 VOL PCT SOLIDS: 51.55 SOLVENT DENSITY: 7.89 VOC LE: 3.1 VOC AP: 2.7 VOC LE (TBAC): 0.5 VOC AP (TBAC): 0.3 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

9T10™ 1,3-propanediol, homo polymer(2.0%), 4-chlorobenzotrifluoride(5.4%), Acetone(3.3%), Acrylic polymer(32.7%), Polyester resin(12.6%), Quinacridone pigment(11.0%), T-butyl acetate(27.6%) **GAL WT: 8.69 WT PCT SOLIDS: 61.45 VOL PCT SOLIDS: 55.52 SOLVENT DENSITY: 7.53 VOC LE: 2.8 VOC AP: 2.6 VOC LE (TBAC): 0.3 VOC AP (TBAC): 0.2 FLASH POINT: 20 °F to below 73 °F H: 1 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

9T11™ 4-chlorobenzotrifluoride(6.4%), Acetone(1.2%), Acrylic polymer(23.9%), Aluminum hydroxide(1.0%), Amorphous silica(1.6%), Polyester resin(9.8%), T-butyl acetate(25.5%), Titanium dioxide(26.2%) **GAL WT: 10.66 WT PCT SOLIDS: 65.35 VOL PCT SOLIDS: 51.97 SOLVENT DENSITY: 7.68 VOC LE: 3.1 VOC AP: 2.9 VOC LE (TBAC): 0.3 VOC AP (TBAC): 0.2 FLASH POINT: 100 °F - 141 °F H: 1 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

9T12™ 2,4-pentanedione(1.2%), 4-chlorobenzotrifluoride(12.2%), Acetone(1.5%), Acrylic polymer(31.3%), Iron oxide(10.7%), Polyester resin(14.0%), T-butyl acetate(22.9%) **GAL WT: 9.52 WT PCT SOLIDS: 60.75 VOL PCT SOLIDS: 53.80 SOLVENT DENSITY: 8.09 VOC LE: 2.8 VOC AP: 2.4 VOC LE (TBAC): 0.4 VOC AP (TBAC): 0.2 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

9T13™ 4-chlorobenzotrifluoride(9.5%), Acetone(1.2%), Acrylic polymer(31.1%), Monoazo pigment(15.0%), Polyester resin(10.9%), T-butyl acetate(26.1%) **GAL WT: 8.99 WT PCT SOLIDS: 60.01 VOL PCT SOLIDS: 54.23 SOLVENT DENSITY: 7.86 VOC LE: 2.9 VOC AP: 2.6 VOC LE (TBAC): 0.5 VOC AP (TBAC): 0.3 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

FG-0162™ 2-ethylhexyl acetate(3.8%), Acetone(1.5%), Aliphatic polyisocyanate resin(74.9%), Butyl acetate(11.0%), Propylene glycol monomethyl ether acetate(8.7%) **GAL WT: 9.08 WT PCT SOLIDS: 75.00 VOL PCT SOLIDS: 69.75 SOLVENT DENSITY: 7.50 VOC LE: 2.2 VOC AP: 2.1 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

FG-062™ 2-ethylhexyl acetate(3.8%), Aliphatic polyisocyanate resin(74.9%), Butyl acetate(12.5%), Propylene glycol monomethyl ether acetate(8.7%) **GAL WT: 9.10 WT PCT SOLIDS: 75.00 VOL PCT SOLIDS: 69.90 SOLVENT DENSITY: 7.55 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

FG-1333™ 1,6-hexamethylene diisocyanate(0.1%*[@]), 4-chlorobenzotrifluoride(2.5%), Aliphatic polyisocyanate resin(94.9%), Methyl acetate(2.4%) **GAL WT: 9.63 WT PCT SOLIDS: 95.00 VOL PCT SOLIDS: 94.76 SOLVENT DENSITY: 9.17 VOC LE: 0.0 VOC AP: 0.0 FLASH POINT: 141 °F - 200 °F H: 2 F: 2 R: 1 OSHA STORAGE: IIIA TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

FG-1633™ 1,6-hexamethylene diisocyanate(0.1%*[@]), Aliphatic polyisocyanate resin(94.9%), Butyl acetate(2.5%), T-butyl acetate(2.5%) **GAL WT: 9.49 WT PCT SOLIDS: 95.00 VOL PCT SOLIDS: 93.47 SOLVENT DENSITY: 7.26 VOC LE: 0.5 VOC AP: 0.5 VOC LE (TBAC): 0.2 VOC AP (TBAC): 0.2 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

FG-33321™ 4-chlorobenzotrifluoride(2.3%), Methyl acetate(1.6%), Polyisocyanate(96.0%) **GAL WT: 9.78 WT PCT SOLIDS: 96.04 VOL PCT SOLIDS: 95.91 SOLVENT DENSITY: 9.45 VOC LE: 0.0 VOC AP: 0.0 FLASH POINT: 20 °F to below 73 °F H: 1 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

FG-572™ 1,6-hexamethylene diisocyanate(0.1%*[@]), Aliphatic polyisocyanate resin(94.4%), Polyisocyanate based on hdi(2.3%), Reactive diluent e(2.8%) **GAL WT: 9.69 WT PCT SOLIDS: 99.84 VOL PCT SOLIDS: 99.82 SOLVENT DENSITY: 8.23 VOC LE: 0.0 VOC AP: 0.0 FLASH POINT: Above 200 °F H: 3 F: 1 R: 1 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

FG-633™ 1,6-hexamethylene diisocyanate(0.1%*[@]), Aliphatic polyisocyanate resin(94.9%), Butyl acetate(5.0%) **GAL WT: 9.50 WT PCT SOLIDS: 95.00 VOL PCT SOLIDS: 93.54 SOLVENT DENSITY: 7.34 VOC LE: 0.5 VOC AP: 0.5 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

RT002P™ Ethylbenzene(18.8%*[@]), Silicone resin(1.5%), Xylene(79.2%*[@]) **GAL WT: 7.24 WT PCT SOLIDS: 1.50 VOL PCT SOLIDS: 1.19 SOLVENT DENSITY: 7.22 VOC LE: 7.1 VOC AP: 7.1 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

VG-6005™ 1,2,4-trimethyl benzene(1.7%*), 1,6-hexamethylene diisocyanate(0.1%*[@]), Aliphatic polyisocyanate resin(89.9%), Aromatic hydrocarbon(2.6%), Butyl acetate(5.0%) **GAL WT: 9.35 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 87.23 SOLVENT DENSITY: 7.29 VOC LE: 0.9 VOC AP: 0.9 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

VG-610™ Aliphatic polyisocyanate resin(74.9%), Butyl acetate(6.9%), Ethyl acetate(13.8%), Ethylene glycol monobutyl ether acetate(4.3%*[@]) **GAL WT: 9.09 WT PCT SOLIDS: 74.96 VOL PCT SOLIDS: 69.77 SOLVENT DENSITY: 7.53 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

VG-805™ 2,4-pentanedione(98.0%), Organotin compound(2.0%) **GAL WT: 8.19 WT PCT SOLIDS: 2.00 VOL PCT SOLIDS: 1.42 SOLVENT DENSITY: 8.14 VOC LE: 8.0 VOC AP: 8.0 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

VGM-6005™ 1,2,4-trimethyl benzene(1.7%*), 1,6-hexamethylene diisocyanate(0.1%*[@]), Aliphatic polyisocyanate resin(89.9%), Aromatic hydrocarbon(2.6%), Butyl acetate(5.0%) **GAL WT: 9.35 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 87.23 SOLVENT DENSITY: 7.29 VOC LE: 0.9 VOC AP: 0.9 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

VG Y611™ Aliphatic polyisocyanate resin(74.9%), Butyl acetate(6.9%), Ethyl acetate(13.8%), Ethylene glycol monobutyl ether acetate(4.3%***@**) **GAL WT: 9.09 WT PCT SOLIDS: 74.99 VOL PCT SOLIDS: 69.80 SOLVENT DENSITY: 7.53 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

VHY691™ Dibutyl tin dilaurate(1.6%), Ethyl acetate(98.3%) **GAL WT: 7.54 WT PCT SOLIDS: 1.55 VOL PCT SOLIDS: 1.34 SOLVENT DENSITY: 7.52 VOC LE: 7.4 VOC AP: 7.4 FLASH POINT: 20 °F to below 73 °F H: 1 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

Footnotes:

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

ACGIH American Conference of Governmental 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.

* VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

TBAC is not universally recognized as an exempt solvent.

Users should consult the applicable regulations for their region.

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* = 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.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

= EPCRA Section 302 - Extremely hazardous substances.

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: Y. B. Yarbrough