

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: **Hot Hues™ Hot Basecoat Colors, Hot Efx™ Powder Additives, Hot Candy Colors and Related Products**

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	96591-17-2	None	A None, O None
1,6-hexamethylene diisocyanate	95-63-6	7.0@44.4 °C	A 25.0 ppm, O 25.0 ppm
4,6-dimethyl-2-heptanone	822-06-0	0.0@25.0 °C	A 5.0 ppb, O None
Acetone	19549-80-5	None	A None, O None
	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-A	69215-54-9	None	A None, O None
Acrylic polymer-B	96591-17-2	None	A None, O None
Aliphatic polyisocyanate resin	28182-81-2	None	S 1.0 mg/m3 15 min STEL, S 0.5 mg/m3, A None, O None
Aluminum	7429-90-5	None	A 1.0 mg/m3 Respirable Dust, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust, D 0.5 mg/m3 8 & 12 hour TWA
Aluminum oxide	1344-28-1	None	A 10.0 mg/m3, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust
Amorphous silica	7631-86-9	None	A 10.0 mg/m3 Total Dust, O 20.0 mppcf, D 3.0 mg/m3
Aromatic hydrocarbon-A	64742-94-5	10.0	D 100.0 ppm, A None, O None
Aromatic hydrocarbon-B	64742-95-6	10.0@25.0 °C	D 50.0 ppm, A None, O None
Barium sulfate	7727-43-7	None	O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust, D 10.0 mg/m3 Total Dust, D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust, A None
Benzyl alcohol	100-51-6	0.1@30.0 °C	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 blue 60	81-77-6	None	A None, O None
C.i. pigment blue 70	Not Avail	None	A None, O None
C.i. pigment yellow 154	68134-22-5	None	A None, O None
C.i. solvent blue 70	12237-24-0	None	A 3.0 mg/m3 Respirable Dust PNOC, A 10.0 mg/m3 inhalable dust PNOC, O 15.0 mg/m3 Total Dust PNOC, O 5.0 mg/m3 Respirable Dust PNOC
Carbamate resin	26935-10-4	None	A None, O None
Carbazole violet pigment	6358-30-1	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
Carbonyl diamide	57-13-6	<0.0	A None, O None
Cellulose acetate butyrate	9004-36-8	None	A None, O None
Chlorite	1318-59-8	None	A None, O None
Chromium hydroxide	1308-14-1	None	A 0.5 mg/m3 Cr, O 0.5 mg/m3 Cr
Cyclohexanone	108-94-1	4.0	A 50.0 ppm 15 min STEL Skin, A 20.0 ppm Skin, O 25.0 ppm TWA, D 50.0 ppm 15 min TWA Skin, D 25.0 ppm 8 & 12 hour TWA Skin
Diisobutyl ketone	108-83-8	1.8	A 25.0 ppm, O 50.0 ppm
Ethyl 3-ethoxy propionate	763-69-9	2.0@25.0 °C	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
Ethylene glycol monobutyl ether	111-76-2	0.6	A 20.0 ppm, O 50.0 ppm Skin, D 20.0 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
Heavy mineral spirits	64741-65-7	10.0@25.0 °C	D 100.0 ppm, A None, O None
Hydrotreated heavy naphtha (petroleum)	64742-48-9	0.7@68.0 °F	A 100.0 ppm, O 500.0 ppm, D 100.0 ppm
Hydrous magnesium silicate	14807-96-6	None	A 2.0 mg/m3 Respirable Dust, D 0.5 mg/m3 8 & 12 hour TWA Respirable Dust, D 0.1 mg/m3 8 & 12 hour TWA, O None
Iron oxide-A	1309-37-1	None	A 5.0 mg/m3 Respirable Dust, O 10.0 mg/m3, D 3.0 mg/m3

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Iron oxide-B	51274-00-1	None	A 5.0 mg/m ³ , O 10.0 mg/m ³
Isobutyl alcohol	78-83-1	9.7@22.0 °C	A 50.0 ppm, O 100.0 ppm
Isopropyl alcohol	67-63-0	48.0	A 400.0 ppm 15 min STEL, A 200.0 ppm, O 400.0 ppm, D 200.0 ppm 8 & 12 hour TWA
Melamine resin	68955-24-8	25.0	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
Methyl amyl ketone	110-43-0	3.4	A 50.0 ppm, O 100.0 ppm
Methyl ethyl ketone	78-93-3	71.2	A 300.0 ppm 15 min STEL, A 200.0 ppm, O 200.0 ppm, D 300.0 ppm 15 min TWA, D 200.0 ppm 8 & 12 hour TWA
Methyl isobutyl ketone	108-10-1	15.1	A 75.0 ppm 15 min STEL, A 50.0 ppm, O 100.0 ppm
Mica	12001-26-2	None	A 3.0 mg/m ³ Respirable Dust, O 20.0 mppcf, O 3.0 mg/m ³ Respirable Dust
Mica coated with tio2	NotAvail	None	A 3.0 mg/m ³ Respirable Dust Mica, O 3.0 mg/m ³ Respirable Dust Mica
Monoazo pigment	12236-62-3	None	A 10.0 mg/m ³ inhalable dust particulate, O 15.0 mg/m ³ Total Dust, O 5.0 mg/m ³ Respirable Dust
N-pentyl propionate	624-54-4	1.5	A None, O None
Naphthalene	91-20-3	1.0@52.6 °C	A 15.0 ppm CEIL Skin, A 10.0 ppm Skin, O 10.0 ppm, D 0.1 ppm 8 & 12 hour TWA
Organic chromium (iii) complex	NotAvail	None	A 0.5 mg/m ³ , O 1.0 mg/m ³
Organic chromium (iii) complex (a)	NotAvail	None	A 0.5 mg/m ³ TWA, O 1.0 mg/m ³ TWA
Organic chromium (iii) complex (c)	NotAvail	None	A 0.5 mg/m ³ TWA, O 1.0 mg/m ³ TWA
Organic chromium (iii)complex (1)	NotAvail	None	A 0.5 mg/m ³ TWA Cr, O 1.0 mg/m ³ TWA
Organic chromium (iii)complex (2)	NotAvail	None	O 1.0 mg/m ³ TWA, A None
Perylene maroon	5521-31-3	None	A None, O None
Phthalocyanine blue	29719-96-8	None	A 10.0 mg/m ³ , O 5.0 mg/m ³ Respirable Dust, O 15.0 mg/m ³
Phthalocyanine blue pigment	147-14-8	None	A 10.0 mg/m ³ inhalable dust PNOC, A 3.0 mg/m ³ respirable particulate PNOC, O 15.0 mg/m ³ Total Dust PNOR, O 5.0 mg/m ³ TWA Respirable Dust PNOR
Phthalocyanine green pigment	68512-13-0	None	A None, O None
Polyacrylic resin	.	None	A None, O None
Polyester resin	35561-07-0	None	A None, O None
Polyethylene/vinyl acetate	24937-78-8	None	A None, O None
Primary amyl acetate	628-63-7	4.2	A 100.0 ppm 15 min STEL, A 50.0 ppm, O 100.0 ppm
Proprietary solvent yellow dye	NotAvail	None	A None, O None
Propylene glycol methyl ether	107-98-2	11.2@77.0 °F	A 150.0 ppm 15 min STEL, A 100.0 ppm, O None
Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA, A None, O None
Quartz-crystalline silica	14808-60-7	None	A 25.0 ug/m ³ Respirable Dust, O 0.3 mg/m ³ Total Dust, O 0.1 mg/m ³ Respirable Dust, D 0.1 mg/m ³ Respirable Dust
Quinacridone pigment	1047-16-1	None	A 10.0 mg/m ³ inhalable dust, A 3.0 mg/m ³ , O 15.0 mg/m ³ Total Dust PNOR, O 5.0 mg/m ³ Respirable Dust, D 10.0 mg/m ³ Total Dust
Substituted benzotriazole	127519-17-9	0.1	S 4.0 mg/m ³ , A None, O None
Synthetic resin	295324-31-1	None	A None, O None
Tetrachloroisosolinone yellow pigment	5590-18-1	None	A 250.0 ppm, O None
Tin oxide	18282-10-5	None	A 2.0 mg/m ³ , O 2.0 mg/m ³
Titanium dioxide	13463-67-7	None	A 10.0 mg/m ³ , O 15.0 mg/m ³ Total Dust, D 10.0 mg/m ³ Total Dust, D 5.0 mg/m ³ Respirable Dust
Titanium dioxide (rutile)	1317-80-2	None	A 10.0 mg/m ³ TWA Total Dust, O 10.0 mg/m ³ Total Dust, O 5.0 mg/m ³ Respirable Dust, D 10.0 mg/m ³ Total Dust, D 5.0 mg/m ³ Respirable Dust
Toluene	108-88-3	22.0	A 20.0 ppm, O 300.0 ppm CEIL, O 500.0 ppm 10 min TWA, O 200.0 ppm, D 50.0 ppm 8 & 12 hour TWA Skin
Water	7732-18-5	23.6	A None, O None
Weather resistant mixture	NotAvail	None	A None, O 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:

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

Aromatic hydrocarbon-A

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.

Aromatic hydrocarbon-B

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.

Carbonyl diamide

Ingestion may cause any of the following: nausea, vomiting, gastrointestinal irritation, diarrhea. Inhalation may cause any of the following: irritation to the nose, irritation to throat, coughing. Skin or eye contact may cause any of the following: irritation.

Cyclohexanone

Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. Liquid splashes in the eye may result in chemical burns. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive.

Diisobutyl ketone

The following medical conditions may be aggravated by exposure: asthma, blood, dermatitis. Contact may cause skin irritation with discomfort or rash. Repeated exposure may cause allergic skin rash, itching, swelling. This substance may cause damage to any of the following organs/systems: eyes, kidneys, liver. Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Liquid or vapor causes irritation, experienced as stinging, excess blinking and tear production, with excess redness and swelling of the conjunctiva.

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

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, central nervous system, eyes, gastrointestinal system, kidneys, liver, respiratory system, skin. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. If absorbed through the skin, may be: harmful.

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.

Heavy 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.

Hydrotreated heavy naphtha (petroleum)

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.

Isobutyl alcohol

Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause irritation of the mucous membranes. May cause abnormal liver function. 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: bone marrow, liver. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

Isopropyl alcohol

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

Melamine resin

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. May induce pulmonary sensitization or significant irritation of the respiratory airways. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. IARC has concluded epidemiology studies found evidence of formaldehyde related nasopharyngeal cancer in humans and have classified formaldehyde as a confirmed human carcinogen. DuPont toxicologists have reviewed these studies and classified formaldehyde as a possible human carcinogen.

Methyl ethyl ketone

Material is irritating to mucous membranes and upper respiratory tract. 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, respiratory system, skin. Prolonged or repeated overexposure may cause any of the following: conjunctivitis, dermatitis. High concentrations have caused embryotoxic effects in laboratory animals. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

Methyl isobutyl ketone

The following medical conditions may be aggravated by exposure: asthma, respiratory disease, eye disorders, pulmonary conditions, skin disorders. Repeated or prolonged skin contact may cause any of the following: dryness, cracking of the skin, defatting. Inhalation may cause any of the following: dizziness, stupor (central nervous system depression), drowsiness, respiratory tract irritation.

Mica

Repeated or prolonged inhalation may cause any of the following: lung irritation. Long-term respiratory exposure exceeding TLV may damage the lungs, leading to bronchitis and impairment of lung capacity.

Mica coated with tio2

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. Repeated and prolonged overexposure may lead to chronic lung disease.

Naphthalene

Is an IARC, NTP or OSHA carcinogen. Tests in some laboratory animals demonstrate carcinogenic activity. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: kidneys, liver. Recurrent overexposure may result in liver and kidney injury. WARNING: This chemical is known to the State of California to cause cancer.

Organic chromium (iii)complex (1)

Inhalation may cause any of the following: irritation.

Organic chromium (iii)complex (2)

Inhalation may cause any of the following: irritation.

Propylene glycol methyl ether

Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

Quartz-crystalline silica

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury. WARNING: This chemical is known to the State of California to cause cancer.

Substituted benzotriazole

The following medical conditions may be aggravated by exposure: jaundice, liver disease. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver, thyroid, upper respiratory system.

Synthetic resin

Skin contact may cause any of the following: irritation.

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.

Titanium dioxide (rutile)

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.

Toluene

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. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats 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. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

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 0.5 % UFL 16 %

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) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If 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) and particulate filter (NIOSH TC-84A) may be used. 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 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)	55 – 135 °C
Approx. Freezing Range (°C)	-99 – 300 °C
Gallon Weight (lbs/gal)	6.85157 - 24.1516
Specific Gravity	0.82 - 2.89
Percent Volatile By Volume	23.44 - 100.00
Percent Volatile By Weight	10.00 - 100.00
Percent Solids By Volume	0.00 - 76.56
Percent Solids By Weight	0.00 - 90.00

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

741454-HH™, Acetone, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(4.9%*®), Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.0%), Xylene(19%*®) **GAL WT: 7.67 WT PCT SOLIDS: 18.44 VOL PCT SOLIDS: 13.04 SOLVENT DENSITY: 7.20 VOC LE: 6.2 VOC AP: 5.4 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

741455-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.5%*®), Iron oxide-A, Iron oxide-B, Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.0%), Xylene(18%*®) **GAL WT: 8.07 WT PCT SOLIDS: 30.47 VOL PCT SOLIDS: 21.86 SOLVENT DENSITY: 7.19 VOC LE: 5.5 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: YES**

741505-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(5.5%*®), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Tetrachloroisosquinoline yellow pigment, Titanium dioxide(2.0%), Xylene(22%*®) **GAL WT: 7.91 WT PCT SOLIDS: 26.32 VOL PCT SOLIDS: 18.98 SOLVENT DENSITY: 7.20 VOC LE: 5.7 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: YES**

741510-HH™, Acetone, Aluminum(3%*), Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(5.3%*®), Hydrotreated heavy naphtha (petroleum), Iron oxide-A, Mica, Polyester resin, Polyethylene/vinyl acetate, Xylene(21%*®) **GAL WT: 8.14 WT PCT SOLIDS: 33.12 VOL PCT SOLIDS: 24.11 SOLVENT DENSITY: 7.19 VOC LE: 5.3 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: YES**

741511-HH™, Acetone, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(6.3%*®), Perylene maroon, Polyester resin, Polyethylene/vinyl acetate, Xylene(25%*®) **GAL WT: 7.93 WT PCT SOLIDS: 30.83 VOL PCT SOLIDS: 24.08 SOLVENT DENSITY: 7.22 VOC LE: 5.4 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**

741512-HH™, Acetone, Aluminum(2%*), Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(5.2%*®), Hydrotreated heavy naphtha (petroleum), Isobutyl alcohol, Melamine resin, Perylene maroon, Polyester resin, Polyethylene/vinyl acetate, Xylene(21%*®) **GAL WT: 7.94 WT PCT SOLIDS: 31.44 VOL PCT**

SOLIDS: 24.19 SOLVENT DENSITY: 7.18 VOC LE: 5.3 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: YES

741514-HH™, Acetone, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(4.8%*), Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.6%), Xylene(19%*) **GAL WT: 7.74 WT PCT SOLIDS: 19.34 VOL PCT SOLIDS: 13.26 SOLVENT DENSITY: 7.21 VOC LE: 6.2 VOC AP: 5.4 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

741515-HH™, Acetone, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(5.7%*), Hydrotreated heavy naphtha (petroleum), Isobutyl alcohol, Mica coated with tio2, Phthalocyanine green pigment, Polyester resin, Polyethylene/vinyl acetate, Xylene(23%*) **GAL WT: 7.90 WT PCT SOLIDS: 27.21 VOL PCT SOLIDS: 20.13 SOLVENT DENSITY: 7.20 VOC LE: 5.7 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: YES**

741516-HH™, Acetone, Butyl acetate, Carbazole violet pigment, Cellulose acetate butyrate, Ethylbenzene(6.0%*), Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(1.4%), Xylene(24%*) **GAL WT: 7.76 WT PCT SOLIDS: 24.12 VOL PCT SOLIDS: 18.19 SOLVENT DENSITY: 7.20 VOC LE: 5.8 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: YES**

741517-HH™, Acetone, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(5.2%*), Isobutyl alcohol, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(1.8%), Xylene(21%*) **GAL WT: 7.87 WT PCT SOLIDS: 24.00 VOL PCT SOLIDS: 16.89 SOLVENT DENSITY: 7.20 VOC LE: 5.9 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: YES**

741518-HH™, Acetone, Butyl acetate, C.i. pigment blue 60, Cellulose acetate butyrate, Ethylbenzene(6.2%*), Isobutyl alcohol, Phthalocyanine blue, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(0.9%), Xylene(25%*) **GAL WT: 7.74 WT PCT SOLIDS: 24.76 VOL PCT SOLIDS: 19.14 SOLVENT DENSITY: 7.20 VOC LE: 5.8 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: YES**

741519-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(5.3%*), Isobutyl alcohol, Melamine resin, Mica, Phthalocyanine blue pigment, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.9%), Xylene(21%*) **GAL WT: 8.12 WT PCT SOLIDS: 32.92 VOL PCT SOLIDS: 24.28 SOLVENT DENSITY: 7.20 VOC LE: 5.3 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: YES**

741794-HH™, Acetone, Butyl acetate, C.i. pigment yellow 154, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.8%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(1.6%), Xylene(19%*) **GAL WT: 8.03 WT PCT SOLIDS: 31.70 VOL PCT SOLIDS: 23.56 SOLVENT DENSITY: 7.18 VOC LE: 5.4 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: YES**

741795-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.4%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.7%), Xylene(18%*) **GAL WT: 7.82 WT PCT SOLIDS: 25.37 VOL PCT SOLIDS: 18.70 SOLVENT DENSITY: 7.19 VOC LE: 5.7 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**

741796-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.5%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.6%), Xylene(18%*) **GAL WT: 7.86 WT PCT SOLIDS: 26.58 VOL PCT SOLIDS: 19.58 SOLVENT DENSITY: 7.18 VOC LE: 5.7 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**

741797-HH™, Acetone, Aluminum oxide(2%), Butyl acetate, Carbon black(0.3%), Cellulose acetate butyrate, Ethylbenzene(5.7%*), Iron oxide-A, Perylene maroon, Polyester resin, Polyethylene/vinyl acetate, Xylene(23%*) **GAL WT: 8.06 WT PCT SOLIDS: 30.98 VOL PCT SOLIDS: 22.92 SOLVENT DENSITY: 7.22 VOC LE: 5.5 VOC AP: 5.1 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

741798-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.8%*), Isobutyl alcohol, Melamine resin, Mica, Monoazo pigment, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide (rutile)(2.2%), Xylene(19%*) **GAL WT: 8.01 WT PCT SOLIDS: 30.21 VOL PCT SOLIDS: 22.04 SOLVENT DENSITY: 7.18 VOC LE: 5.5 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: YES**

741799-HH™, Acetone, Butyl acetate, C.i. pigment yellow 154, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(5.1%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(1.1%), Titanium dioxide (rutile)(1.9%), Xylene(20%*) **GAL WT: 8.04 WT PCT SOLIDS: 30.64 VOL PCT SOLIDS: 22.29 SOLVENT DENSITY: 7.18 VOC LE: 5.5 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: YES**

741800-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.3%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide (rutile)(2.3%), Xylene(17%*) **GAL WT: 7.89 WT PCT SOLIDS: 26.47 VOL PCT SOLIDS: 19.06 SOLVENT DENSITY: 7.18 VOC LE: 5.7 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: YES**

741801-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(5.0%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.3%), Xylene(20%*) **GAL WT: 7.94 WT PCT SOLIDS: 27.64 VOL PCT SOLIDS: 20.07 SOLVENT DENSITY: 7.19 VOC LE: 5.6 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**

741901-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.9%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(2.1%), Xylene(19%*) **GAL WT: 7.87 WT PCT SOLIDS: 26.42 VOL PCT SOLIDS: 19.47 SOLVENT DENSITY: 7.20 VOC LE: 5.7 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**

741903-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(5.4%*), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(1.3%), Xylene(21%*) **GAL WT: 7.82 WT PCT SOLIDS: 26.78 VOL PCT SOLIDS: 20.27 SOLVENT DENSITY: 7.19 VOC**

LE: 5.6 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

741904-HH™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.7%*), Hydrotreated heavy naphtha (petroleum), Isobutyl alcohol, Melamine resin, Mica, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(1.2%), Xylene(19%*) **GAL WT: 7.75 WT PCT SOLIDS: 25.03 VOL PCT SOLIDS: 18.95 SOLVENT DENSITY: 7.18 VOC LE: 5.7 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: YES**

741905-HH™, Acetone, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(6.6%*), Iron oxide-A, Polyester resin, Polyethylene/vinyl acetate, Quinacridone pigment, Xylene(26%*) **GAL WT: 7.89 WT PCT SOLIDS: 29.06 VOL PCT SOLIDS: 22.45 SOLVENT DENSITY: 7.22 VOC LE: 5.5 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: YES**

741907-HH™, Acetone, Butyl acetate, Carbamate resin, Carbon black(0.1%), Cellulose acetate butyrate, Ethylbenzene(5.3%*), Melamine resin, Polyester resin, Polyethylene/vinyl acetate, Titanium dioxide(0.3%), Xylene(21%*) **GAL WT: 7.75 WT PCT SOLIDS: 24.80 VOL PCT SOLIDS: 19.08 SOLVENT DENSITY: 7.21 VOC LE: 5.7 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: YES**

759196-HH™ Acrylic polymer-B, Butyl acetate, Carbon black(2.2%), Cellulose acetate butyrate, Methyl ethyl ketone, N-pentyl propionate, Primary amyl acetate, Toluene(33%*) **GAL WT: 7.79 WT PCT SOLIDS: 30.42 VOL PCT SOLIDS: 24.31 SOLVENT DENSITY: 7.19 VOC LE: 5.4 VOC AP: 5.4 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

HCC-6210™ Acrylic polymer-A, Butyl acetate, C.i. pigment blue 70(14%*), Cellulose acetate butyrate, Ethylbenzene(3.5%*), Methyl amyl ketone, Methyl isobutyl ketone(7%*), Substituted benzotriazole, Xylene(14%*) **GAL WT: 7.90 WT PCT SOLIDS: 36.84 VOL PCT SOLIDS: 30.10 SOLVENT DENSITY: 7.15 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**

HCC-6215™ Acrylic polymer-A, Benzyl alcohol, Butyl acetate, C.i. pigment blue 70(12%*), Cellulose acetate butyrate, Ethylbenzene(2.9%*), Methyl amyl ketone, Methyl isobutyl ketone(6%*), Organic chromium (iii) complex(2%*), Substituted benzotriazole, Xylene(11%*) **GAL WT: 8.10 WT PCT SOLIDS: 36.54 VOL PCT SOLIDS: 30.58 SOLVENT DENSITY: 7.42 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: YES**

HCC-6225™ Acrylic polymer-A, Benzyl alcohol, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(2.5%*), Methyl ethyl ketone, Methyl isobutyl ketone(5%*), Organic chromium (iii) complex(3%*), Xylene(10%*) **GAL WT: 8.15 WT PCT SOLIDS: 58.48 VOL PCT SOLIDS: 52.98 SOLVENT DENSITY: 7.20 VOC LE: 3.4 VOC AP: 3.4 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

HCC-6230™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(3.7%*), Methyl amyl ketone, Methyl isobutyl ketone(8%*), Organic chromium (iii) complex(8%*), Substituted benzotriazole, Xylene(15%*) **GAL WT: 7.81 WT PCT SOLIDS: 32.23 VOL PCT SOLIDS: 26.01 SOLVENT DENSITY: 7.16 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: YES**

HCC-6235™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(3.7%*), Methyl amyl ketone, Methyl isobutyl ketone(8%*), Organic chromium (iii) complex(8%*), Substituted benzotriazole, Xylene(15%*) **GAL WT: 7.79 WT PCT SOLIDS: 32.38 VOL PCT SOLIDS: 26.34 SOLVENT DENSITY: 7.16 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: YES**

HCC-6240™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(2.0%*), Methyl ethyl ketone, Methyl isobutyl ketone(4%*), Organic chromium (iii) complex(1%*), Substituted benzotriazole, Xylene(8%*) **GAL WT: 7.69 WT PCT SOLIDS: 34.07 VOL PCT SOLIDS: 26.94 SOLVENT DENSITY: 6.99 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: YES**

HCC-6245™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(3.7%*), Methyl amyl ketone, Methyl isobutyl ketone(8%*), Organic chromium (iii) complex(8%*), Substituted benzotriazole, Xylene(15%*) **GAL WT: 7.73 WT PCT SOLIDS: 30.87 VOL PCT SOLIDS: 25.30 SOLVENT DENSITY: 7.16 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: YES**

HCC-6250™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(2.1%*), Methyl isobutyl ketone(21%*), Proprietary solvent yellow dye(8%*), Propylene glycol methyl ether, Substituted benzotriazole, Xylene(8%*) **GAL WT: 7.80 WT PCT SOLIDS: 31.21 VOL PCT SOLIDS: 25.03 SOLVENT DENSITY: 7.18 VOC LE: 5.4 VOC AP: 5.4 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

HCC-6255™ Acrylic polymer-A, Butyl acetate, C.i. solvent blue 70, Cellulose acetate butyrate, Ethylbenzene(3.8%*), Methyl amyl ketone, Methyl isobutyl ketone(8%*), Organic chromium (iii) complex(4%*), Substituted benzotriazole, Xylene(15%*) **GAL WT: 7.74 WT PCT SOLIDS: 30.63 VOL PCT SOLIDS: 24.88 SOLVENT DENSITY: 7.16 VOC LE: 5.4 VOC AP: 5.4 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

HCC-6260™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Cyclohexanone, Ethylbenzene(2.2%*), Methyl acetate, Methyl ethyl ketone, Methyl isobutyl ketone(5%*), Organic chromium (iii) complex (1)(3%*), Organic chromium (iii) complex (2)(1%*), Propylene glycol monomethyl ether acetate, Substituted benzotriazole, Toluene(9%*), Xylene(9%*) **GAL WT: 7.83 WT PCT SOLIDS: 27.94 VOL PCT SOLIDS: 22.69 SOLVENT DENSITY: 7.31 VOC LE: 5.5 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: YES**

HCC-6265™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(2.2%*), Methyl ethyl ketone, Methyl isobutyl ketone(5%*), Organic chromium (iii) complex (a)(2%), Organic chromium (iii) complex (c)(1%), Substituted benzotriazole, Toluene(14%*), Xylene(9%*) **GAL WT: 7.60 WT PCT SOLIDS: 27.80 VOL PCT SOLIDS: 22.22 SOLVENT DENSITY: 7.08 VOC LE: 5.5 VOC AP: 5.5 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

HH-6200™ Acetone, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(4.7%*), Methyl amyl ketone, Polyethylene/vinyl acetate, Synthetic resin, Xylene(19%*) **GAL WT: 7.41 WT PCT SOLIDS: 13.76 VOL PCT SOLIDS: 11.08 SOLVENT DENSITY: 7.20 VOC LE: 6.4 VOC AP: 5.5 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

HH-6300™, Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(3.9%*), Isobutyl alcohol, Melamine resin, Methyl amyl ketone, Polyethylene/vinyl acetate, Synthetic resin, Xylene(16%*) **GAL WT: 7.55 WT PCT SOLIDS: 21.90 VOL PCT SOLIDS: 17.69 SOLVENT DENSITY: 7.18 VOC LE: 5.8**

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

HHA-6405™ 1,2,4-trimethyl benzene(1%*), Aliphatic polyisocyanate resin, Aromatic hydrocarbon-A, Aromatic hydrocarbon-B, Butyl acetate, Ethyl 3-ethoxy propionate, Ethylbenzene(0.8%*@), Ethylene glycol monobutyl ether acetate(9%*@), Naphthalene(0.3%*@), Xylene(3%*@) GAL WT: 8.51 WT PCT SOLIDS: 49.51 VOL PCT SOLIDS: 43.16 SOLVENT DENSITY: 7.55 VOC LE: 4.3 VOC AP: 4.3 FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

HHA-8005™ 1,6-hexamethylene diisocyanate(0.1%*@), 4,6-dimethyl-2-heptanone, Aliphatic polyisocyanate resin, Butyl acetate, Diisobutyl ketone, Methyl amyl ketone GAL WT: 8.45 WT PCT SOLIDS: 65.00 VOL PCT SOLIDS: 56.94 SOLVENT DENSITY: 6.88 VOC LE: 3.0 VOC AP: 3.0 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6000™ Ethylene glycol monobutyl ether(10%*), Mica, Titanium dioxide(26.5%), Weather resistant mixture GAL WT: 20.75 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 76.56 SOLVENT DENSITY: 7.53 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: Above 200 °F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6001™ Ethylene glycol monobutyl ether(10%*), Iron oxide-A, Mica, Weather resistant mixture GAL WT: 21.98 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 73.03 SOLVENT DENSITY: 7.53 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: Above 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6002™ Ethylene glycol monobutyl ether(10%*), Mica, Titanium dioxide(44.0%), Weather resistant mixture GAL WT: 21.19 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 71.74 SOLVENT DENSITY: 7.53 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: Above 200 °F H: 2 F: 2 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6003™ Ethylene glycol monobutyl ether(10%*), Mica, Titanium dioxide(36.0%), Weather resistant mixture GAL WT: 20.75 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 72.38 SOLVENT DENSITY: 7.53 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: Above 200 °F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6004™ Ethylene glycol monobutyl ether(10%*), Iron oxide-A, Mica, Weather resistant mixture GAL WT: 21.60 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 75.46 SOLVENT DENSITY: 7.53 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: Above 200 °F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6005™ Ethylene glycol monobutyl ether(10%*), Mica, Titanium dioxide(43.0%), Weather resistant mixture GAL WT: 21.19 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 71.79 SOLVENT DENSITY: 7.53 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: Above 200 °F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6006™ Ethylene glycol monobutyl ether(10%*), Mica coated with tio2 GAL WT: 22.12 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 70.54 SOLVENT DENSITY: 7.53 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: Above 200 °F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6007™ Chromium hydroxide(1%*@), Heavy mineral spirits, Mica, Titanium dioxide (rutile)(39.6%) GAL WT: 21.69 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 68.00 SOLVENT DENSITY: 6.50 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: Above 200 °F H: 2 F: 2 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6101™ Aluminum oxide(59%*), Amorphous silica, Heavy mineral spirits, Titanium dioxide(23.0%), Weather resistant mixture GAL WT: 23.31 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 64.52 SOLVENT DENSITY: 6.50 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6102™ Aluminum oxide(47%*), Amorphous silica, Heavy mineral spirits, Titanium dioxide(35.1%), Weather resistant mixture GAL WT: 24.15 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 60.80 SOLVENT DENSITY: 6.50 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6103™ Aluminum oxide(44%*), Amorphous silica, Heavy mineral spirits, Iron oxide-A, Weather resistant mixture GAL WT: 24.15 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 62.83 SOLVENT DENSITY: 6.50 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6104™ Aluminum oxide(39%*), Amorphous silica, Heavy mineral spirits, Tin oxide, Titanium dioxide(41.0%), Weather resistant mixture GAL WT: 18.33 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 76.14 SOLVENT DENSITY: 6.50 VOC LE: 1.8 VOC AP: 1.8 FLASH POINT: 141 °F - 200 °F H: 1 F: 2 R: 0 OSHA STORAGE: IIIA TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6222™ Acrylic polymer-A, Butyl acetate, Cellulose acetate butyrate, Ethylbenzene(4.4%*@), Methyl ethyl ketone, Methyl isobutyl ketone(9%*@), Xylene(17%*@) GAL WT: 7.69 WT PCT SOLIDS: 25.80 VOL PCT SOLIDS: 20.71 SOLVENT DENSITY: 7.20 VOC LE: 5.7 VOC AP: 5.7 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

HHM-6390™ Acetone, Butyl acetate, Carbamate resin, Cellulose acetate butyrate, Ethylbenzene(4.8%*@), Isobutyl alcohol, Melamine resin, Polyester resin, Polyethylene/vinyl acetate, Xylene(19%*@) GAL WT: 7.55 WT PCT SOLIDS: 18.64 VOL PCT SOLIDS: 14.53 SOLVENT DENSITY: 7.19 VOC LE: 6.1 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: YES

HHM-6399™ Carbonyl diamide, Isopropyl alcohol, Water GAL WT: 9.25 WT PCT SOLIDS: 45.00 VOL PCT SOLIDS: 37.36 SOLVENT DENSITY: 8.12 VOC LE: 1.0 VOC AP: 0.5 FLASH POINT: 73 °F to below 100 °F H: 1 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

HHM-6400™ 1,2,4-trimethyl benzene(2%*), Aromatic hydrocarbon-B, Barium sulfate, Butyl acetate, Carbon black(1.4%), Chlorite, Ethylbenzene(1.2%*@), Hydrous magnesium silicate, Polyacrylic resin, Quartz-crystalline silica(0.2%), Xylene(5%*@) GAL WT: 11.03 WT PCT SOLIDS: 63.19 VOL PCT SOLIDS: 44.47 SOLVENT DENSITY: 7.28 VOC LE: 4.1 VOC AP: 4.1 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

HHR-7065™ Butyl acetate, Ethylbenzene(4.0%*[@]), Methyl ethyl ketone, Toluene(15%*[@]), Xylene(16%*[@]) **GAL WT: 7.13 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 7.13 VOC LE: 7.1 VOC AP: 7.1 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

HHR-7075™ Butyl acetate, Ethylbenzene(5.0%*[@]), Methyl amyl ketone, Methyl isobutyl ketone(10%*[@]), Xylene(20%*[@]) **GAL WT: 7.09 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 7.09 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**

HHR-7085™ 4,6-dimethyl-2-heptanone, Diisobutyl ketone, Ethylbenzene(3.0%*[@]), Methyl amyl ketone, N-pentyl propionate, Xylene(12%*[@]) **GAL WT: 6.85 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.85 VOC LE: 6.9 VOC AP: 6.9 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

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.

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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