B141045

MSDS (25F) Attach to Graham order

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

Manufacturer: Axalta Coating Systems, LLC
1007 Market Street, D-13111
Wilmington, DE 19898

Telephone: Product information: (800) 438-3876
Medical emergency: (855) 274-5698
Transportation emergency: (800) 424-9300 (CHEMTREC)

Product: **Corlar® Enamels, Primers, Mixing Bases and Activators**

DOT Shipping Name: See DOT Addendum.

Hazardous Materials Information: See Section 10.

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
1,3,5-trimethyl benzene	108-67-8	None	A 25.0 ppm, O None
2,4,6- tri((dimethylamino)methyl) phenol	90-72-2	0.0@21.0 °C	A None, O None
4,6-dimethyl-2-heptanone	19549-80-5	None	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-A	Not Avail	None	A None, O None
Acrylic polymer-B	148969-95-3	None	A None, O None
Aluminum	7429-90-5	None	O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust, D 0.5 mg/m3 8 & 12 hour TWA, A None
Aluminum hydroxide	21645-51-2	None	A 1.0 mg/m3, O None
Amidoamine	64754-99-0	None	A None, 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
Amorphous silica-fumed	68611-44-9	None	A 2.0 mg/m3 Respirable Dust, D 1.0 mg/m3 Respirable Dust, O None
Aromatic hydrocarbon-A	64742-94-5	10.0	D 100.0 ppm 8 & 12 hour TWA, A None, O None
Aromatic hydrocarbon-B	64742-95-6	10.0@25.0 °C	D 50.0 ppm 8 & 12 hour TWA, A None, O None
Azo yellow pigment	31837-42-0	None	A 10.0 mg/m3, O 5.0 mg/m3 Respirable Dust, O 15.0 mg/m3
Barium sulfate	7727-43-7	<0.0	O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust, D 10.0 mg/m3 8 & 12 hour TWA 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	D 10.0 ppm 8 & 12 hour TWA, A None, O None
Bisphenol-epichlorohydrin type polymer	25068-38-6	1.0@180.0 °C	A None, O None
Black iron oxide	1317-61-9	None	A 10.0 mg/m3 Inhalable dust, O 15.0 mg/m3
Butyl acetate	123-86-4	15.0	A 200.0 ppm 15 min STEL, A 150.0 ppm, O 150.0 ppm
Calcium phosphosilicate	Not Avail	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
Cumene	98-82-8	3.7	A 50.0 ppm, O 50.0 ppm Skin
Curing agent	Not Avail	None	A None, O None
Diacetone alcohol	123-42-2	1.1	A 50.0 ppm TLV, O 50.0 ppm TWA
Diisobutyl ketone	108-83-8	1.8	A 25.0 ppm, O 50.0 ppm
Dipropylene glycol methyl ether	34590-94-8	0.4@25.0 °C	A None, O None
Epoxy hardener	1477-55-0	None	A 0.1 mg/m3 TWA Skin, O 0.1 mg/m3 TWA Skin
Epoxy resin	25068-38-6	247.9@60.0 °F	A None, O None
Ethyl acetate	141-78-6	100.0	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	111-76-2	0.6	A 20.0 ppm, O 50.0 ppm Skin, D 20.0 ppm 8 & 12 hour TWA
Feldspar	68476-25-5	None	A None, O None
Glycidyl ether of alkyl phenol	171263-25-5	None	A None, O None
Glycol dibenzoate ester	27138-31-4	None	A None, O None
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, O None
Iron hydroxide	20344-49-4	None	A None, O None

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Iron oxide	1309-37-1	None	A 5.0 mg/m3 Respirable Dust, O 10.0 mg/m3, D 3.0 mg/m3
Kaolin	1332-58-7	None	A 2.0 mg/m3 Respirable Dust, O 15.0 mg/m3 TWA Total Dust, O 5.0 mg/m3 TWA Respirable Dust
Limestone (calcium carbonate)	1317-65-3	None	A 10.0 mg/m3, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust
Methyl acetate	79-20-9	179.5@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
Mica	12001-26-2	None	A 3.0 mg/m3 Respirable Dust, O 20.0 mppcf, O 3.0 mg/m3 Respirable Dust
Modified aliphatic amines	Not Avail	7.5@21.0 °F	A None, O None
N-butyl alcohol	71-36-3	6.0@68.0 °F	A 20.0 ppm, O 100.0 ppm, D 50.0 ppm 15 min TWA, D 25.0 ppm 8 & 12 hour TWA
Neodecanoic acid, 2,3,-epoxypropyl ester	26761-45-5	<0.0	A None, O None
Organophilic clay	Not Avail	None	A 10.0 mg/m3 PNOC, O 15.0 mg/m3 TWA
Phenolic polymer	9003-35-4	None	A None, O None
Propylene carbonate	108-32-7	0.0	A None, O None
Quartz-crystalline silica	14808-60-7	None	A 25.0 ug/m3 Respirable Dust, O 0.3 mg/m3 Total Dust, O 0.1 mg/m3 Respirable Dust, D 20.0 ug/m3 Respirable Dust, D 10.0 ug/m3 12 hr TWA Respirable Dust
Resin	68002-19-7	None	A None, O None
Sodium aluminum silicate	68476-25-5	None	A None, O None
Stoddard solvent	8052-41-3	None	A 100.0 ppm, O 500.0 ppm TWA, D 100.0 ppm 15 min STEL, D 50.0 ppm 8 & 12 hour TWA
T-butyl acetate	540-88-5	None	A 200.0 ppm, O 200.0 ppm
Tetraethylenepentamine	112-57-2	None	A None, O None
Tetrahydrofuran	109-99-9	173.0@25.0 °C	A 50.0 ppm Skin, D 50.0 ppm 8 & 12 hour TWA Skin, O None
Titanium dioxide	13463-67-7	None	O 15.0 mg/m3 Total Dust, D 10.0 mg/m3 8 & 12 hour TWA Total Dust, D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust, A None
Tofa, reaction products w/tepa	68953-36-6	<20.6@21.0 °C	A None, O None
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
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 100.0 ppm 8 & 12 hour TWA
Yellow iron oxide	51274-00-1	None	A 10.0 mg/m3, O 15.0 mg/m3
Zinc oxide	1314-13-2	None	A 10.0 mg/m3 15 min STEL Respirable Dust, A 2.0 mg/m3 Respirable Dust, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust

***A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted. D=DuPont, Results obtained from E. I. du Pont de Nemours and Company.**

3. Hazards identification

Potential Health Effects:

Inhalation:

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

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

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

Other Potential Health Effects in addition to those listed above:

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.

Amidoamine
Can be absorbed through the skin in harmful amounts. Ingestion may cause any of the following; burns to mouth and stomach, gastrointestinal irritation. Skin contact may cause any of the following: severe irritation, burns. Eye contact may cause any of the following: severe irritation, burns, permanent eye injury. Similar chemicals are suspected mutagens.

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.

Bisphenol-epichlorohydrin type polymer
The following medical conditions may be aggravated by exposure: skin disorders. Vapor may be irritating at elevated temperatures. Repeated or prolonged skin contact may cause any of the following: allergic contact dermatitis.

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.

Calcium phosphosilicate
Ingestion may cause any of the following: nausea, vomiting, gastrointestinal irritation, diarrhea. Repeated or prolonged eye contact may cause any of the following: corneal injury. The following medical conditions may be aggravated by overexposure: lung disease, pulmonary conditions.

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.

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

Diacetone alcohol
Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system, central nervous system, eyes, respiratory system, skin, red blood cells. Overexposure may cause damage to any of the following organs/systems: kidneys, liver, red blood cells. 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 conjuctiva.

Epoxy hardener
If ingested, may be: moderately toxic. Skin or eye contact may cause any of the following: severe irritation.

Epoxy resin
The following medical conditions may be aggravated by exposure: skin disorders. Vapor may be irritating at elevated temperatures. Repeated or prolonged skin contact may cause any of the following: allergic contact dermatitis.

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
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. If absorbed through the skin, may be: harmful.

Kaolin
The following medical conditions may be aggravated by exposure: asthma, dermatitis. Repeated or prolonged inhalation may cause any of the following: lung injury.

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.

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.

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

Phenolic polymer
Repeated or prolonged inhalation may cause any of the following: respiratory tract irritation.

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.

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.

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.

Tetrahydrofuran
Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: liver, lungs. Inhalation of vapor may cause any of the following: dizziness, headache, stupor (central nervous system depression), coughing, respiratory tract irritation. Skin or eye 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.'

Tofa, reaction products w/tepa
Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision.

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. Firefighting measures

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

Flammable Limits: LFL 0.8 % 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.

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

Evapouration rate	Slower than Ether
Water solubility	NIL
Vapour density	Heavier than air
Approx. Boiling Range (°C)	56 – 230 °C
Approx. Freezing Range (°C)	-98 °C
Gallon Weight (lbs/gal)	7.77791 - 14.0036
Specific Gravity	0.93 - 1.68
Percent Volatile By Volume	9.44 - 50.86
Percent Volatile By Weight	5.95 - 37.21
Percent Solids By Volume	49.14 - 90.56
Percent Solids By Weight	62.79 - 94.00

10. Stability and reactivity

Stability:
Stable

Incompatibility (materials to avoid):
None reasonably foreseeable

Hazardous decomposition products:
CO, C02, 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

1HTA25P™ Aluminum(22.2%*), Amorphous silica(1.1%), Bisphenol-epichlorohydrin type polymer(38.6%), Ethyl acetate(2.3%), N-butyl alcohol(2.3%*), Phenolic polymer(14.0%), Stoddard solvent(12.0%), T-butyl acetate(3.0%), Toluene(1.3%*@) **GAL WT: 9.91 WT PCT SOLIDS: 77.75 VOL PCT SOLIDS: 67.21 SOLVENT DENSITY: 6.76 VOC LE: 2.1 VOC AP: 2.1 VOC LE (TBAC): 1.9 VOC AP (TBAC): 1.8 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

1LB25P™ 1,2,4-trimethyl benzene(5.2%*), 1,3,5-trimethyl benzene(1.2%), 2,4,6- tri((dimethylamino)methyl) phenol(1.5%), Amidoamine(14.8%), Amorphous silica(1.6%), Aromatic hydrocarbon-B(8.1%), Calcium phosphosilicate(5.1%), Cumene(0.3%*@), Feldspar(1.2%), Glycidyl ether of alkyl phenol(11.4%), Hydrous magnesium silicate(2.8%), Kaolin(1.2%), Mica(16.2%), Quartz-crystalline silica(1.0%), Titanium dioxide(25.3%) **GAL WT: 12.90 WT PCT SOLIDS: 83.90 VOL PCT SOLIDS: 71.51 SOLVENT DENSITY: 7.24 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

1LB26P™ 1,2,4-trimethyl benzene(2.5%*), Acetone(2.4%), Aluminum hydroxide(1.4%), Amorphous silica(2.2%), Aromatic hydrocarbon-B(4.0%), Barium sulfate(7.1%), Bisphenol-epichlorohydrin type polymer(27.3%), Cumene(0.1%*@), Diacetone alcohol(6.6%), Ethylbenzene(0.2%*@), Hydrous magnesium silicate(4.3%), Titanium dioxide(35.7%), Xylene(1.1%*@) **GAL WT: 13.74 WT PCT SOLIDS: 80.11 VOL PCT SOLIDS: 63.14 SOLVENT DENSITY: 7.39 VOC LE: 2.5 VOC AP: 2.4 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

2MB25P™ 1,2,4-trimethyl benzene(5.8%*), 1,3,5-trimethyl benzene(1.3%), 2,4,6- tri((dimethylamino)methyl) phenol(1.7%), Amidoamine(16.9%), Aromatic hydrocarbon-B(9.0%), Calcium phosphosilicate(6.1%), Cumene(0.3%*@), Feldspar(1.5%), Glycidyl ether of alkyl phenol(13.0%), Hydrous magnesium silicate(3.3%), Kaolin(1.5%), Mica(20.0%), Quartz-crystalline silica(1.2%), Titanium dioxide(14.2%) **GAL WT: 11.90 WT PCT SOLIDS: 82.05 VOL PCT SOLIDS: 70.72 SOLVENT DENSITY: 7.24 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

2MB26P™ 1,2,4-trimethyl benzene(2.7%*), Acetone(1.1%), Amorphous silica(1.1%), Aromatic hydrocarbon-B(4.2%), Barium sulfate(15.3%), Bisphenol-epichlorohydrin type polymer(33.5%), Cumene(0.1%*@), Diacetone alcohol(6.8%), Ethylbenzene(0.3%*@), Ethylene glycol monobutyl ether(1.4%*), Hydrous magnesium silicate(9.4%), Titanium dioxide(17.8%), Xylene(1.2%*@) **GAL WT: 12.90 WT PCT SOLIDS: 80.02 VOL PCT SOLIDS: 65.50 SOLVENT DENSITY: 7.44 VOC LE: 2.5 VOC AP: 2.4 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

3DB25P™ 1,2,4-trimethyl benzene(5.5%*), 1,3,5-trimethyl benzene(1.2%), 2,4,6- tri((dimethylamino)methyl) phenol(1.9%), Amidoamine(18.9%), Aromatic hydrocarbon-B(8.6%), Calcium phosphosilicate(6.6%), Cumene(0.3%*@), Feldspar(1.7%), Glycidyl ether of alkyl phenol(14.5%), Hydrous magnesium silicate(3.6%), Kaolin(1.7%), Mica(23.1%), Quartz-crystalline silica(1.4%), Titanium dioxide(7.5%) **GAL WT: 11.47 WT PCT SOLIDS: 82.92 VOL PCT SOLIDS: 73.13 SOLVENT DENSITY: 7.24 VOC LE: 1.9 VOC AP: 1.9 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

3DB26P™ 1,2,4-trimethyl benzene(2.2%*), Acetone(2.6%), Aromatic hydrocarbon-B(3.5%), Barium sulfate(20.6%), Bisphenol-epichlorohydrin type polymer(34.4%), Cumene(0.1%*@), Diacetone alcohol(6.0%), Ethylbenzene(0.3%*@), Ethylene glycol monobutyl ether(1.8%*), Hydrous magnesium silicate(12.6%), Titanium dioxide(9.2%), Xylene(1.3%*@) GAL WT: 12.71 WT PCT SOLIDS: 80.08 VOL PCT SOLIDS: 65.78 SOLVENT DENSITY: 7.38 VOC LE: 2.3 VOC AP: 2.2 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

4NB25P™ 1,2,4-trimethyl benzene(6.6%*), 1,3,5-trimethyl benzene(1.5%), 2,4,6- tri((dimethylamino)methyl) phenol(2.0%), Amidoamine(19.9%), Aromatic hydrocarbon-B(10.3%), Calcium phosphosilicate(6.9%), Cumene(0.3%*@), Feldspar(1.8%), Glycidyl ether of alkyl phenol(15.3%), Hydrous magnesium silicate(3.8%), Kaolin(1.8%), Mica(25.0%), Quartz-crystalline silica(1.5%) **GAL WT: 10.76 WT PCT SOLIDS: 79.50 VOL PCT SOLIDS: 69.75 SOLVENT DENSITY: 7.24 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

4NB26P™ 1,2,4-trimethyl benzene(1.5%*), Aromatic hydrocarbon-B(2.3%), Barium sulfate(25.9%), Bisphenol-epichlorohydrin type polymer(37.0%), Diacetone alcohol(9.2%), Ethylbenzene(0.3%*@), Ethylene glycol monobutyl ether(2.3%*), Hydrous magnesium silicate(15.8%), Xylene(1.3%*@) **GAL WT: 12.65 WT PCT SOLIDS: 81.23 VOL PCT SOLIDS: 68.74 SOLVENT DENSITY: 7.59 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

525-33009™ 2,4,6- tri((dimethylamino)methyl) phenol(1.1%), 4,6-dimethyl-2-heptanone(1.2%), Acetone(10.3%), Amidoamine(8.4%), Barium sulfate(22.3%), Calcium phosphosilicate(2.3%), Diisobutyl ketone(5.2%), Ethylene glycol monobutyl ether(9.0%*), Glycidyl ether of alkyl phenol(6.6%), Hydrous magnesium silicate(17.5%),

Kaolin(10.5%), Methyl amyl ketone(2.8%), Titanium dioxide(0.1%) GAL WT: 12.01 WT PCT SOLIDS: 70.92 VOL PCT SOLIDS: 49.64 SOLVENT DENSITY: 6.92 VOC LE: 2.8 VOC AP: 2.2 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-880™ 4-chlorobenzotrifluoride(4.9%), Acetone(12.0%), Aromatic hydrocarbon-B(1.2%), Barium sulfate(16.9%), Bisphenol-epichlorohydrin type polymer(19.4%), Epoxy resin(6.0%), Hydrous magnesium silicate(6.3%), Iron oxide(3.2%), Kaolin(10.5%), Limestone (calcium carbonate)(6.0%), Methyl acetate(7.3%), N-butyl alcohol(2.6%*), Titanium dioxide(0.2%) GAL WT: 12.02 WT PCT SOLIDS: 69.52 VOL PCT SOLIDS: 51.03 SOLVENT DENSITY: 7.48 VOC LE: 1.2 VOC AP: 0.7 FLASH POINT: Below 20 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-882™ 4-chlorobenzotrifluoride(4.9%), Acetone(12.8%), Aromatic hydrocarbon-B(1.2%), Barium sulfate(16.8%), Bisphenol-epichlorohydrin type polymer(19.2%), Epoxy resin(5.9%), Hydrous magnesium silicate(6.3%), Kaolin(10.4%), Limestone (calcium carbonate)(5.9%), Methyl acetate(7.2%), N-butyl alcohol(2.5%*), Titanium dioxide(0.2%), Yellow iron oxide(3.0%) GAL WT: 11.90 WT PCT SOLIDS: 68.83 VOL PCT SOLIDS: 50.22 SOLVENT DENSITY: 7.45 VOC LE: 1.2 VOC AP: 0.7 FLASH POINT: Below 20 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-885™ 4-chlorobenzotrifluoride(4.9%), Acetone(12.8%), Barium sulfate(14.7%), Bisphenol-epichlorohydrin type polymer(19.2%), Epoxy resin(5.9%), Hydrous magnesium silicate(5.3%), Kaolin(9.4%), Limestone (calcium carbonate)(5.9%), Methyl acetate(7.6%), N-butyl alcohol(1.8%*), Titanium dioxide(6.5%) GAL WT: 11.95 WT PCT SOLIDS: 69.33 VOL PCT SOLIDS: 50.94 SOLVENT DENSITY: 7.47 VOC LE: 1.1 VOC AP: 0.6 FLASH POINT: Below 20 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-886™ 4-chlorobenzotrifluoride(5.4%), Acetone(11.6%), Barium sulfate(15.7%), Bisphenol-epichlorohydrin type polymer(19.4%), Carbon black(0.2%), Epoxy resin(6.0%), Hydrous magnesium silicate(5.4%), Kaolin(15.3%), Limestone (calcium carbonate)(6.0%), Methyl acetate(7.7%), N-butyl alcohol(2.6%*), Titanium dioxide(0.3%) GAL WT: 11.93 WT PCT SOLIDS: 69.50 VOL PCT SOLIDS: 51.79 SOLVENT DENSITY: 7.54 VOC LE: 1.1 VOC AP: 0.7 FLASH POINT: Below 20 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-968™ 4-chlorobenzotrifluoride(4.9%), Acetone(13.0%), Barium sulfate(14.9%), Bisphenol-epichlorohydrin type polymer(19.4%), Epoxy resin(6.0%), Hydrous magnesium silicate(5.4%), Kaolin(9.6%), Limestone (calcium carbonate)(6.0%), Methyl acetate(7.7%), N-butyl alcohol(1.8%*), Titanium dioxide(6.6%) GAL WT: 12.02 WT PCT SOLIDS: 69.52 VOL PCT SOLIDS: 51.01 SOLVENT DENSITY: 7.48 VOC LE: 1.0 VOC AP: 0.6 FLASH POINT: Below 20 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-971™ 4-chlorobenzotrifluoride(4.8%), Acetone(14.8%), Barium sulfate(14.6%), Bisphenol-epichlorohydrin type polymer(19.0%), Epoxy resin(5.9%), Hydrous magnesium silicate(5.3%), Kaolin(9.4%), Limestone (calcium carbonate)(5.8%), Methyl acetate(7.5%), N-butyl alcohol(1.8%*), Titanium dioxide(6.4%) GAL WT: 11.81 WT PCT SOLIDS: 68.07 VOL PCT SOLIDS: 49.14 SOLVENT DENSITY: 7.41 VOC LE: 1.0 VOC AP: 0.6 FLASH POINT: Below 20 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-989™ 4-chlorobenzotrifluoride(4.9%), Acetone(12.9%), Barium sulfate(13.4%), Bisphenol-epichlorohydrin type polymer(19.3%), Epoxy resin(6.0%), Hydrous magnesium silicate(4.8%), Kaolin(8.6%), Limestone (calcium carbonate)(5.4%), Methyl acetate(7.6%), N-butyl alcohol(1.8%*), Titanium dioxide(9.7%) GAL WT: 12.06 WT PCT SOLIDS: 69.55 VOL PCT SOLIDS: 50.87 SOLVENT DENSITY: 7.47 VOC LE: 1.0 VOC AP: 0.6 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

525-990™ 4-chlorobenzotrifluoride(4.8%), Acetone(12.8%), Barium sulfate(14.6%), Bisphenol-epichlorohydrin type polymer(19.1%), Epoxy resin(5.9%), Hydrous magnesium silicate(5.3%), Kaolin(9.4%), Limestone (calcium carbonate)(5.9%), Methyl acetate(7.5%), N-butyl alcohol(1.8%*), Titanium dioxide(6.4%) GAL WT: 12.01 WT PCT SOLIDS: 69.49 VOL PCT SOLIDS: 50.97 SOLVENT DENSITY: 7.47 VOC LE: 1.1 VOC AP: 0.6 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

FG-040™ 1,2,4-trimethyl benzene(7.5%*), 1,3,5-trimethyl benzene(1.7%), 2,4,6- tri((dimethylamino)methyl) phenol(1.5%), Aromatic hydrocarbon-B(11.8%), Barium sulfate(16.3%), Cumene(0.4%*@), Curing agent(23.0%), Hydrous magnesium silicate(22.7%), Kaolin(7.8%), N-butyl alcohol(3.1%*) GAL WT: 11.92 WT PCT SOLIDS: 73.61 VOL PCT SOLIDS: 57.50 SOLVENT DENSITY: 7.18 VOC LE: 3.1 VOC AP: 3.1 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

FG-090™ 2,4,6- tri((dimethylamino)methyl) phenol(2.1%), Benzyl alcohol(4.3%), Epoxy hardener(1.9%), Ethylbenzene(0.2%*@), Modified aliphatic amines(3.4%), Organophilic clay(4.0%), Quartz-crystalline silica(5.7%), Sodium aluminum silicate(38.1%), Tetraethylenepentamine(5.7%), Tofa, reaction products w/tepa(32.1%) GAL WT: 11.42 WT PCT SOLIDS: 93.29 VOL PCT SOLIDS: 90.56 SOLVENT DENSITY: 8.10 VOC LE: 0.8 VOC AP: 0.8 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

FG-2HTA™ 1,2,4-trimethyl benzene(4.1%*), 2,4,6- tri((dimethylamino)methyl) phenol(1.7%), Acetone(7.8%), Amidoamine(17.8%), Amorphous silica(1.1%), Aromatic hydrocarbon-B(6.4%), Calcium phosphosilicate(6.2%), Cumene(0.2%*@), Dipropylene glycol methyl ether(2.1%), Glycidyl ether of alkyl phenol(13.5%), Hydrous magnesium silicate(31.9%), Phenolic polymer(1.1%), Toluene(2.4%*@) GAL WT: 10.49 WT PCT SOLIDS: 75.33 VOL PCT SOLIDS: 63.59 SOLVENT DENSITY: 7.07 VOC LE: 2.0 VOC AP: 1.8 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

FG-33011™ Acetone(6.6%), Barium sulfate(13.4%), Bisphenol-epichlorohydrin type polymer(17.6%), Ethyl acetate(2.3%), Ethylbenzene(0.1%*@), Hydrous magnesium silicate(13.4%), Kaolin(9.9%), Methyl ethyl ketone(5.1%), Phenolic polymer(7.3%), Resin(1.2%), Titanium dioxide(8.1%), Toluene(9.5%*@) GAL WT: 12.10 WT PCT SOLIDS: 74.80 VOL PCT SOLIDS: 56.30 SOLVENT DENSITY: 6.98 VOC LE: 2.5 VOC AP: 2.2 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

FG-33046™ Acetone(7.4%), Barium sulfate(14.4%), Bisphenol-epichlorohydrin type polymer(17.5%), Ethyl acetate(2.3%), Ethylbenzene(0.1%*@), Hydrous magnesium silicate(14.5%), Kaolin(13.0%), Methyl ethyl ketone(5.2%), Phenolic polymer(7.4%), Resin(1.2%), Titanium dioxide(0.3%), Toluene(9.6%*@), Yellow iron oxide(3.3%) GAL WT: 11.91 WT PCT SOLIDS: 74.13 VOL PCT SOLIDS: 55.73 SOLVENT DENSITY: 6.96 VOC LE: 2.5 VOC AP: 2.2 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

FG-33272™ Acetone(6.5%), Acrylic polymer-A(3.7%), Barium sulfate(12.5%), Bisphenol-epichlorohydrin type polymer(16.4%), Butyl acetate(2.0%), Carbon black(0.3%),

Ethyl acetate(2.1%), Ethylbenzene(0.1%*@), Hydrous magnesium silicate(12.4%), Kaolin(9.2%), Methyl ethyl ketone(4.9%), Phenolic polymer(6.8%), Resin(1.1%), Titanium dioxide(7.5%), Toluene(6.8%*@) **GAL WT: 11.71 WT PCT SOLIDS: 73.28 VOL PCT SOLIDS: 55.24 SOLVENT DENSITY: 6.99 VOC LE: 2.7 VOC AP: 2.3 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63225P™ 1,2,4-trimethyl benzene(4.8%*), 1,3,5-trimethyl benzene(1.1%), 2,4,6- tri((dimethylamino)methyl) phenol(1.4%), Amidoamine(13.6%), Amorphous silica(1.4%), Aromatic hydrocarbon-B(7.5%), Cumene(0.3%*@), Feldspar(1.1%), Glycidyl ether of alkyl phenol(10.5%), Kaolin(1.1%), Mica(14.9%), Quartz-crystalline silica(0.9%), Titanium dioxide(23.4%), Zinc oxide(15.2%*) **GAL WT: 14.00 WT PCT SOLIDS: 85.18 VOL PCT SOLIDS: 71.54 SOLVENT DENSITY: 7.24 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63226P™ 1,2,4-trimethyl benzene(2.6%*), Acetone(2.3%), Aluminum hydroxide(1.3%), Amorphous silica(2.1%), Aromatic hydrocarbon-B(4.1%), Barium sulfate(6.8%), Bisphenol-epichlorohydrin type polymer(30.2%), Cumene(0.1%*@), Diacetone alcohol(6.2%), Ethylbenzene(0.3%*@), Hydrous magnesium silicate(4.1%), Titanium dioxide(33.8%), Xylene(1.2%*@) **GAL WT: 13.41 WT PCT SOLIDS: 80.40 VOL PCT SOLIDS: 64.51 SOLVENT DENSITY: 7.38 VOC LE: 2.4 VOC AP: 2.3 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63290P™ Bisphenol-epichlorohydrin type polymer(46.0%), Ethylbenzene(0.7%*@), Glycol dibenzoate ester(6.2%), Organophilic clay(2.0%), Quartz-crystalline silica(2.4%), Sodium aluminum silicate(16.1%), Titanium dioxide(19.5%), Xylene(2.9%*@) **GAL WT: 12.60 WT PCT SOLIDS: 93.97 VOL PCT SOLIDS: 89.12 SOLVENT DENSITY: 6.99 VOC LE: 0.6 VOC AP: 0.6 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63325P™ 1,2,4-trimethyl benzene(5.7%*), 1,3,5-trimethyl benzene(1.3%), 2,4,6- tri((dimethylamino)methyl) phenol(1.6%), Amidoamine(16.6%), Aromatic hydrocarbon-B(8.9%), Calcium phosphosilicate(6.0%), Carbon black(0.2%), Cumene(0.3%*@), Feldspar(1.4%), Glycidyl ether of alkyl phenol(12.8%), Hydrous magnesium silicate(3.3%), Kaolin(1.4%), Mica(19.7%), Quartz-crystalline silica(1.2%), Titanium dioxide(13.9%) **GAL WT: 11.91 WT PCT SOLIDS: 81.85 VOL PCT SOLIDS: 70.42 SOLVENT DENSITY: 7.26 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63326P™ 1,2,4-trimethyl benzene(2.3%*), Acetone(2.2%), Aluminum hydroxide(1.3%), Amorphous silica(2.0%), Aromatic hydrocarbon-B(3.6%), Barium sulfate(7.3%), Bisphenol-epichlorohydrin type polymer(29.2%), Carbon black(0.3%), Cumene(0.1%*@), Diacetone alcohol(6.0%), Dipropylene glycol methyl ether(1.1%), Ethylbenzene(0.3%*@), Hydrous magnesium silicate(4.0%), Titanium dioxide(32.5%), Xylene(1.1%*@) **GAL WT: 13.43 WT PCT SOLIDS: 80.58 VOL PCT SOLIDS: 64.80 SOLVENT DENSITY: 7.41 VOC LE: 2.4 VOC AP: 2.3 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63525P™ 1,2,4-trimethyl benzene(5.1%*), 1,3,5-trimethyl benzene(1.2%), 2,4,6- tri((dimethylamino)methyl) phenol(1.4%), Amidoamine(14.6%), Amorphous silica(1.5%), Aromatic hydrocarbon-B(8.1%), Calcium phosphosilicate(5.1%), Cumene(0.3%*@), Feldspar(1.2%), Glycidyl ether of alkyl phenol(11.2%), Hydrous magnesium silicate(2.8%), Kaolin(1.2%), Mica(16.0%), Quartz-crystalline silica(1.0%), Titanium dioxide(25.1%) **GAL WT: 12.91 WT PCT SOLIDS: 83.82 VOL PCT SOLIDS: 71.37 SOLVENT DENSITY: 7.25 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63590P™ Bisphenol-epichlorohydrin type polymer(45.7%), Ethylbenzene(0.7%*@), Glycol dibenzoate ester(6.2%), Organophilic clay(2.0%), Quartz-crystalline silica(2.4%), Sodium aluminum silicate(16.0%), Titanium dioxide(19.3%), Xylene(2.8%*@) **GAL WT: 12.61 WT PCT SOLIDS: 94.00 VOL PCT SOLIDS: 89.19 SOLVENT DENSITY: 6.99 VOC LE: 0.6 VOC AP: 0.6 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63725P™ 1,2,4-trimethyl benzene(5.2%*), 1,3,5-trimethyl benzene(1.2%), 2,4,6- tri((dimethylamino)methyl) phenol(1.5%), Amidoamine(14.7%), Amorphous silica(1.6%), Aromatic hydrocarbon-B(8.1%), Calcium phosphosilicate(5.1%), Cumene(0.3%*@), Feldspar(1.2%), Glycidyl ether of alkyl phenol(11.3%), Hydrous magnesium silicate(2.8%), Kaolin(1.2%), Mica(16.1%), Quartz-crystalline silica(1.0%), Titanium dioxide(25.2%) **GAL WT: 12.90 WT PCT SOLIDS: 83.85 VOL PCT SOLIDS: 71.43 SOLVENT DENSITY: 7.24 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63726P™ 1,2,4-trimethyl benzene(2.5%*), Acetone(2.2%), Aluminum hydroxide(1.3%), Amorphous silica(2.0%), Aromatic hydrocarbon-B(3.9%), Barium sulfate(6.7%), Bisphenol-epichlorohydrin type polymer(31.4%), Cumene(0.1%*@), Diacetone alcohol(6.1%), Ethylbenzene(0.3%*@), Hydrous magnesium silicate(4.0%), Titanium dioxide(32.9%), Xylene(1.2%*@) **GAL WT: 13.31 WT PCT SOLIDS: 80.77 VOL PCT SOLIDS: 65.45 SOLVENT DENSITY: 7.39 VOC LE: 2.4 VOC AP: 2.3 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-63790P™ Bisphenol-epichlorohydrin type polymer(45.2%), Ethylbenzene(1.0%*@), Glycol dibenzoate ester(6.1%), Organophilic clay(2.0%), Quartz-crystalline silica(2.4%), Sodium aluminum silicate(15.8%), Titanium dioxide(19.1%), Xylene(4.1%*@) **GAL WT: 12.45 WT PCT SOLIDS: 92.47 VOL PCT SOLIDS: 86.59** SOLVENT DENSITY: 7.04 VOC LE: 0.8 VOC AP: 0.8 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

LF-64025P™ 1,2,4-trimethyl benzene(5.3%*), 1,3,5-trimethyl benzene(1.2%), 2,4,6- tri((dimethylamino)methyl) phenol(1.6%), Acrylic polymer-A(2.4%), Amidoamine(16.1%), Aromatic hydrocarbon-B(8.2%), Barium sulfate(12.3%), Butyl acetate(1.2%), Calcium phosphosilicate(5.6%), Carbon black(0.2%), Cumene(0.3%*@), Glycidyl ether of alkyl phenol(12.8%), Hydrous magnesium silicate(3.1%), Kaolin(25.7%), Titanium dioxide(0.3%) **GAL WT: 11.56 WT PCT SOLIDS: 81.51 VOL PCT SOLIDS: 70.65 SOLVENT DENSITY: 7.24 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-64026P™ 1,2,4-trimethyl benzene(3.1%*), Aromatic hydrocarbon-B(4.9%), Barium sulfate(34.1%), Bisphenol-epichlorohydrin type polymer(28.8%), Carbon black(1.0%), Cumene(0.2%*@), Diacetone alcohol(7.2%), Ethylbenzene(0.3%*@), Hydrous magnesium silicate(2.7%), Kaolin(12.9%), Titanium dioxide(0.1%), Xylene(1.2%*@) **GAL WT: 13.53 WT PCT SOLIDS: 80.96 VOL PCT SOLIDS: 65.65 SOLVENT DENSITY: 7.47 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-64090P™ Bisphenol-epichlorohydrin type polymer(44.7%), Black iron oxide(6.9%), Ethylbenzene(0.8%*@), Glycol dibenzoate ester(6.4%), Organophilic clay(2.9%),

Quartz-crystalline silica(4.2%), Sodium aluminum silicate(28.2%), Xylene(3.0%*@) **GAL WT: 12.38 WT PCT SOLIDS: 93.93 VOL PCT SOLIDS: 89.29 SOLVENT DENSITY: 7.01 VOC LE: 0.7 VOC AP: 0.7 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-66326P™ 1,2,4-trimethyl benzene(3.2%*), Acetone(2.3%), Acrylic polymer-B(3.5%), Aromatic hydrocarbon-B(5.0%), Azo yellow pigment(10.6%), Barium sulfate(2.6%), Bisphenol-epichlorohydrin type polymer(39.6%), Butyl acetate(1.8%), Cumene(0.2%*@), Diacetone alcohol(7.9%), Ethylbenzene(0.2%*@), Hydrous magnesium silicate(1.5%), Iron hydroxide(1.2%), Propylene carbonate(1.7%), Tetrahydrofuran(1.2%), Titanium dioxide(12.0%) **GAL WT: 10.52 WT PCT SOLIDS: 73.42 VOL PCT SOLIDS: 62.82 SOLVENT DENSITY: 7.50 VOC LE: 2.6 VOC AP: 2.5 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-6AL90P™ Aluminum(4.2%*), Amorphous silica(1.5%), Bisphenol-epichlorohydrin type polymer(49.9%), Ethylbenzene(0.8%*@), Glycol dibenzoate ester(7.1%), Organophilic clay(3.9%), Quartz-crystalline silica(3.3%), Sodium aluminum silicate(22.1%), Stoddard solvent(2.3%), Xylene(3.0%*@) **GAL WT: 11.44 WT PCT SOLIDS: 92.94 VOL PCT SOLIDS: 88.27 SOLVENT DENSITY: 6.90 VOC LE: 0.8 VOC AP: 0.8 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-71125P™ 1,2,4-trimethyl benzene(4.6%*), 1,3,5-trimethyl benzene(1.1%), 2,4,6- tri((dimethylamino)methyl) phenol(1.3%), Amidoamine(13.1%), Aromatic hydrocarbon-B(7.3%), Barium sulfate(25.8%), Cumene(0.2%*@), Glycidyl ether of alkyl phenol(10.1%), Hydrous magnesium silicate(3.1%), Iron oxide(9.4%), Mica(12.0%), Quartz-crystalline silica(0.7%) **GAL WT: 13.97 WT PCT SOLIDS: 85.21 VOL PCT SOLIDS: 71.70 SOLVENT DENSITY: 7.25 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 °F - 141 °F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LF-71190P™ Bisphenol-epichlorohydrin type polymer(43.8%), Ethylbenzene(0.8%*@), Glycol dibenzoate ester(6.2%), Iron oxide(10.3%), Organophilic clay(3.7%), Quartz-crystalline silica(3.8%), Sodium aluminum silicate(25.4%), Xylene(3.0%*@) **GAL WT: 12.54 WT PCT SOLIDS: 93.88 VOL PCT SOLIDS: 89.04 SOLVENT DENSITY: 7.01 VOC LE: 0.7 VOC AP: 0.6 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

LLF-25W90P™ Acrylic polymer-A(1.3%), Bisphenol-epichlorohydrin type polymer(41.9%), Butyl acetate(1.8%), Carbon black(0.3%), Ethylbenzene(0.7%*@), Glycol dibenzoate ester(8.4%), Iron hydroxide(2.1%), Organophilic clay(1.8%), Quartz-crystalline silica(2.2%), Sodium aluminum silicate(14.6%), Titanium dioxide(17.7%), Xylene(2.6%*@) **GAL WT: 12.43 WT PCT SOLIDS: 92.62 VOL PCT SOLIDS: 87.02 SOLVENT DENSITY: 7.08 VOC LE: 0.8 VOC AP: 0.8 FLASH POINT: 100 °F - 141 °F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

VF-026™ 1,2,4-trimethyl benzene(3.9%*), 2,4,6- tri((dimethylamino)methyl) phenol(2.0%), Acetone(1.9%), Acrylic polymer-A(10.2%), Amidoamine(20.5%), Amorphous silica-fumed(2.0%), Aromatic hydrocarbon-A(1.1%), Aromatic hydrocarbon-B(6.2%), Butyl acetate(1.3%), Calcium phosphosilicate(3.7%), Cumene(0.2%*@), Hydrous magnesium silicate(5.6%), Kaolin(4.3%), Methyl amyl ketone(2.3%), Methyl ethyl ketone(9.0%), Mica(8.2%), N-butyl alcohol(2.0%*), Neodecanoic acid, 2,3,-epoxypropyl ester(10.7%), Quartz-crystalline silica(0.5%) **GAL WT: 9.22 WT PCT SOLIDS: 70.29 VOL PCT SOLIDS: 60.71 SOLVENT DENSITY: 6.98 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

VF-525™ Bisphenol-epichlorohydrin type polymer(36.4%), Ethyl acetate(6.3%), Hydrous magnesium silicate(27.7%), N-butyl alcohol(2.4%*), Phenolic polymer(14.0%), Toluene(10.0%*@) **GAL WT: 10.76 WT PCT SOLIDS: 80.99 VOL PCT SOLIDS: 71.86 SOLVENT DENSITY: 7.25 VOC LE: 2.0 VOC AP: 2.0 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

VG-026™ 1,2,4-trimethyl benzene(1.4%*), 2,4,6- tri((dimethylamino)methyl) phenol(2.2%), Acetone(4.7%), Acrylic polymer-A(25.6%), Amidoamine(22.5%), Aromatic hydrocarbon-B(2.1%), Butyl acetate(3.2%), Methyl amyl ketone(5.7%), Methyl ethyl ketone(11.6%), N-butyl alcohol(7.7%*), Neodecanoic acid, 2,3,-epoxypropyl ester(11.8%) **GAL WT: 7.78 WT PCT SOLIDS: 62.79 VOL PCT SOLIDS: 57.52 SOLVENT DENSITY: 6.83 VOC LE: 2.7 VOC AP: 2.5 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB 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.

* 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