Dupant Main

MSDS DIC 7 July 1, 2001

DuPont Performance Coatings MATERIAL SAFETY DATA SHEET EPOXY PRIMERS, ENAMELS, AND ACTIVATORS

SEC	TION 1 - Product and	Company Identif	fication	INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Manufacturer:		E.I. DuPont de Nemours & Co. Dupont Performance Coatings Wilmington, DE, 19898					TWAE Respirable D 1.0 mg/m3 Respirable Dus- A 2.0 mg/m3
Telephone:	Product Information Medical Emergency: Transportation Emer	(800) 44 gency: (800) 42	1-3637 4-9300	AROMATIC HYDROCARBON-A			Respirable Dus
(CHEMTREC) Product: M7 EPOXY PRIMERS, ENAMELS, AND ACTIVATO					64742 -9 4-5	10.0	D 100.0 ppm A None O None
DOT Shipping Name: See DOT addendum.				AROMATIC HYDROCARBON-B			
Hazardous Mater	ials Information:	See Se	ction 10.		64742-95-6	10.0 @ 25.0 Deg C	D 50.0 ppm
SECTIO	N 2 - Composition, I	nformation on In	gredients				A None O None
INGREDI		# VAPOR PRESSUR		BARIUM SULFATE	7727-43-7	None	D 10.0 mg/m2 A 10.0 mg/m3
ACRYLIC POLYME	Not Ava	ail None	A None O None				Total Dust O 15.0 mg/m2 Total Dust O 5.0 mg/m3
MORILLO FOLITA	26010-5	1-5 None	A None O None	BISPHENOL A/EPICHLOROHYD	RIN POLYMER 25036-25-3	2.7 @ 23.9	Respirable Dus A None
ACRYLIC POLYME	R-C 148969-	95-3 None	A None O None			Deg C	O None
ALUMINUM	7429-9	0-5 None	A 10.0 mg/m3 O None	BISPHENOL-EPICHLOROHYDRI	N TYPE POLYM 25068-38-6	ER None	A None O None
AMIDO AMINE	Not Ava	iil None	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
AMIDOAMINE	Not Ava	il None	A None O None	CALCIUM CARBONATE	474 74 4	Atoma	
AMIDOAMINE RE	SIN-A Not Ava	iil None	A None O None		471-34-1	None	A 10.0 mg/m3 O 15.0 mg/m3 A 5.0 mg/m3 Respirable
AMIDOAMINE RE	SIN-B 68443-0	8-3 None	A Noлe О None	CALCIUM PHOSPHOSILICATE	Not Avail	None	A None O None
AMINE SALT OF F	OLYCARBONIC ACID Not Ava	il 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
AMORPHOUS SILI	CA-A 7631-86	6-9 None	A 1.0 mg/m3 15 min STEL O 15.0 mg/m3 A 0.2 mg/m3 Respirable O 5.0 mg/m3	CUMENE	98-82-8	3.7	8 &12 hour TWA
AMORPHOUS SIL	ICA - FUMED 69012-64	4-2 None	Respirable O 2.0 mg/m3	L			O 50.0 ppm Skin

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INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS		
ORGANOPHILIC CLAY	Blob Acod	Nana	A No		1330-20-7	7.0 @ 25.0 Deg C	A 150.0 ppm		
	Not Avail	None	A None O None				15 min STEL D 150.0 ppm 15 min STEL		
PARA-NONYLPHENOL	84852-15-3	None	A None O None				A 100.0 ppm O 100.0 ppm D 100.0 ppm		
PHENOLIC POLYMER	9003-35-4	None	A None				8 & 12 hour TWA		
	,		O None	ZINC OXIDE	1314-13-2	None	O 5.0 mg/m3		
PHTHALOCYANINE BLUE PIGN	1ENT 147-14-8	None	A None O None				Respirable A 10.0 mg/m3 Total Dust O 10.0 mg/m2		
POLYAMIDE RESIN	68410-23-1	None	A None O None	1,2,4-TRIMETHYL BENZENE			Total Dust		
PROPYLENE CARBONATE	400.00 =				95-63-6	7.0 @ 44.4	A 25.0 ppm		
	108-32-7	0.0	A None O None			Deg C	O 25.0 ppm		
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE				2-ETHYLHEXYL GLYCIDYL ETH					
	108-65-6	3.7	D 10.0 ppm 12 hr TWA A None		Not Avail	None	A None O Non e		
QUARTZ-CRYSTALLINE SILICA			O None	2,4,6-DIMETHYLAMINOMETHY	Not Avail	0.0 @ 21.0 Deg C	A None		
QUANTE ON STANCE MALE	14808-60-7	None	O 0.1 mg/m3 Respirable Dust A 50.0 ug/m3 Respirable Dust	4,6-DIMETHYL-2- HEPTANONE		-	O None		
QUINACRIDONE PIGMENT	1017.16.1		4 80		19549-80-5	None	A None O None		
	1047-16-1	None	A None O None	 A = ACGIH, O = OSHA, D unless otherwise specified. 					
TITANIUM DIOXIDE	13463-67-7	None	A 10.0 mg/m3	SECTION	3 - Hazards I	Information			
TOLUENE	15105 07 7	None	D 5.0 mg/m3 Respirable D 10.0 mg/m3 Total Dust O 15.0 mg/m3 Total Dust	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					
IOLUGNE	108-88-3	22.0	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm	damage. Ingestion: May result in gastroi Skin or eye contact: May cause irritation o	r burning of the	e eyes. Repeated			
			8 & 12 hour TWA A 50.0 ppm	liquid contact may ca dermatitis.	use skin irritatio	on with discomfor	t and		
			Skin O 500.0 ppm 10 min TWA Maximum	Other Potential Health Effect AMIDOAMINE Contact may cause s Causes eye corrosion	kin irritation wi	th discomfort or n			
UREA FORMALDEHYDE RESIN	Not Avail	5.5	A None O None	AMIDOAMINE RESIN-B Contact may cause s	•		ash.		
XYLENE			3	Contact may cause s Causes eye corrosion	kin burns.				

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damage. May cause central nervous system depression with headache, stupor, uncoordinated or strange behavior, or unconsciousness.

METHYL ISOBUTYL KETONE

Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury.

MICA

Repeated and prolonged overexposure may lead to chronic lung disease.

N-BUTYL ALCOHOL

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

NAPHTHALENE

Individuals with preexisting diseases of the liver or kidneys may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

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

QUARTZ-CRYSTALLINE SILICA

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to typical x-ray changes and chronic lung disease.

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

TITANIUM DIOXIDE

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

TOLUENE

Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system kidneys liver respiratory system skin

May cause eye irritation with discomfort, tearing, or blurred vision. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High alrborne 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. Aspiration may occur during swallowing or vorniting, resulting in lung damage. Material may be harmful or fatal if swallowed.

WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

UREA FORMALDEHYDE 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. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. Epidemiology studies conducted to date have not found evidence of formaldehyde related tumor induction in humans.

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

XYLENE

Individuals with preexisting disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. 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.

ZINC OXIDE

May cause abnormal liver function.

2,4,6-DIMETHYLAMINOMETHYL PHENOL

Can be absorbed through the skin in harmful amounts.

SECTION 4 - First Aid Measures

First Aid Procedures:

Inhalation:

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

Ingestion:

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

Skin or eye:

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

SECTION 5 - Firefighting Measures

Flash Point (Closed Cup) Flammable limits Extinguishing media: See Section 11 for exact values. LFL 0.0 % UPL 13.1 %

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

Fire fighting procedures:

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

Fire & explosion hazards:

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

SECTION 6 - Accidental Release Measures

Steps to be taken in case material is released or spilled:

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

SECTION 7 - Handling and Storage

Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 -

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LF-63225P Amidoamine (13.9%), Aromatic Hydrocarbon-8 (9.1%), Bisphenol Epichlorohydrin Type Polymer (10.5%), Mica (17.2%), Quartz-Crystalline Silica (0.9%), Titanium Dioxide (25.8%), Zinc Oxide (15.2%*), 1,2,4-Trimethyl Benzene (1-7%*), 2,4,6-Dimethylaminomethyl Phenol (1.5%) GAL WT: 13.41 WT PCT SOLIDS: 85.24 VOL PCT SOLIDS: 72.58 SOLVENT DENSITY: 7.22 VOC LE: 2.0 VOC AP: 2.0 FLASH POINT: 100 deg F - 141 deg F H: 3 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63325P Amidoamine (17.0%), Aromatic Hydrocarbon-B (10.8%), Bisphenol Epichlorohydrin Type Polymer (12.8%), Calcium Phosphosilicate (6.0%), Carbon Black (0.2%), Cumene (0-1%*@), Hydrous Magnesium Silicate (3.3%), Mica (22.6%), Quartz-Crystalline Silica (1.2%), Titanium Dioxide (15.3%), 1,2,4-Trimethyl Benzene (2-8%*), 2,4,6-Dimethylaminomethyl Phenol (1.8%) GAL WT: 11.78 WT PCT SOLIDS: 81.94 VOL PCT SOLIDS: 70.59 SOLVENT DENSITY: 7.24 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 deg F - 141 deg F H: 3 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63525P Amidoamine (14.9%), Aromatic Hydrocarbon-8 (9.8%), Bisphenol Epichlorohydrin Type Polymer (11.3%), Calcium Phosphosilicate (5.1%), Hydrous Magnesium Silicate (2.8%), Mica (18.5%), Quartz-Crystalline Silica (1.0%), Titanium Dioxide (27.6%), 1,2,4-Trimethyl Benzene (2-7%*), 2,4,6-Dimethylaminomethyl Phenol(1.6%)

GAL WT: 12.78 WT PCT SOLIDS: 83.90 VOL PCT SOLIDS: 71.51 SOLVENT DENSITY: 7.23 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 deg F - 141 deg F H: 3 F: 2 R: 0 OSHA STORAGE; II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63725P Amidoamine (15.0%), Aromatic Hydrocarbon-B (9.8%), Bisphenol Epichlorohydrin Type Polymer (11.3%), Calcium Phosphosilicate (5.1%), Hydrous Magnesium Silicate (2.8%), Mica (18.6%), Quartz-Crystalline Silica (1.0%), Titanium Dioxide (27.7%), 1,2,4-Trimethyl Benzene(2-7%*), 2,4,6-Dimethylaminomethyl Phenol (1.6%)

GAL WT: 12.77 WT PCT SOLIDS: 83.92 VOL PCT SOLIDS: 71.56 SOLVENT DENSITY: 7.23 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100 deg F - 141 deg F H: 3 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-71125P Amidoamine (13.4%), Aromatic Hydrocarbon-B (8.9%), Barium Sulfate (26.8%), Bisphenol Epichlorohydrin Type Polymer (10.1%), Calcium Phosphosilicate (5.6%), Hydrous Magneslum Silicate (3.1%), Iron Oxide (8.9%), Mica (13.8%), Quartz-Crystalline Silica (1.3%), 1,2,4-Trimethyl Benzene (1-6%*), 2,4,6-Dimethylaminomethyl Phenol (1.4%)

GAL WT: 13.81 WT PCT SOLIDS: 85.31 VOL PCT SOLIDS: 71.95 SOLVENT DENSITY: 7.24 VOC LE: 2.0 VOC AP: 2.0 FLASH POINT: 100 deg F - 141 deg F H: 3 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-333 Amidoarnine (8.7%), Barium Sulfate (24.7%), Bisphenol Epichlorohydrin Type Polymer (6.5%), Calcium Phosphosilicate (6.1%), Diisobutyl Ketone (6.0%), Ethylene Glycol Monobutylether (8.4%*®), Hydrous Magnesium Silicate (12.9%), Kaolin (10.9%), Methyl Amyl Ketone (5.2%), Methyl Ethyl Ketone (5.8%*®), 2,4,6-Dimethylaminomethyl Phenol (1.2%), 4,6-Dimethyl-2-Heptanone (1.5%)

GAL WT: 12.27 WT PCT SOLIDS: 72.77 VOL PCT SOLIDS: 51.92 SOLVENT DENSITY: 6.94 VOC LE: 3.3 VOC AP: 3.3 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

1LB26P Aromatic Hydrocarbon-B (5.6%), Barium Sulfate (6.8%), Bisphenol Epichlorohydrin Type Polymer (30.4%), Diacetone Alcohol (7.0%), Ethylbenzene (0.1-0.2%*@), Hydrous Magnesium Silicate (4.1%), Titanium Dioxide (37.4%), Xylene(1-2%*@), 1,2,4-Trimethyl Benzene (1-4%*)

GAL WT: 13.48 WT PCT SOLIDS: 80.85 VOL PCT SOLIDS: 65.47 SOLVENT DENSITY: 7.49 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100 deg F - 141 deg F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

2MB26P Aromatic Hydrocarbon-8 (5.1%), Barium Sulfate (15.4%), Bisphenol Epichlorohydrin Type Polymer (33.3%), Diacetone Alcohol (7.9%), Ethylbenzene (0.1-0.2%*@), Ethylene Glycol Monobutyl ether (1.4%*@), Hydrous Magnesium Silicate (9.4%), Titanium Dioxide (19.6%), Xylene (1-2%*@), 1,2,4-Trimethyl Benzene (1-4%*)

GAL WT: 12.91 WT PCT SOLIDS: 79.96 VOL PCT SOLIDS: 65.52 SOLVENT DENSITY: 7.51 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100 deg F - 141 deg F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

3DB26P Aromatic Hydrocarbon-B (4.3%), Barium Sulfate (20.7%), Bisphenol Epichforohydrin Type Polymer (34.2%), Diacetone Alcohol (8.6%), Ethylbenzene (0.1-0.3%*@), Ethylene Glycol Monobutylether(1.9%*@), Hydrous Magnestum Silicate(12.6%), Titanium Dioxide (10.1%), Xylene (1-2%*@), 1,2,4-Trimethyl Benzene(1-3%*)

GAL WT: 12.78 WT PCT SOLIDS; 80.02 VOL PCT SOLIDS; 66.08 SOLVENT DENSITY; 7.53 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100 deg F - 141 deg F H; 2 F; 2 R; 0 OSHA STORAGE; II TSCA STATUS; In compilance PHOTOCHEMICALLY REACTIVE; YES

4NB26P Aromatic Hydrocarbon-B (2.8%), Barium Sulfate (25.9%), Bisphenol Epichlorohydrin Type Polymer (36.8%), Diacetone Alcohol (9.3%), Ethylbenzene (0.1-0.3%*@), Ethylene Giycol Monobutylether (2.3%*@), Hydrous Magnesium Silicate (15.8%), Xylene (1-2%*@), 1,2,4-Trimethyl Benzene (0-2%*) GAL WT: 12.64 WT PCT SOLIDS: 81.17 VOL PCT SOLIDS: 68.56 SOLVENT DENSITY: 7.58 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT: 100 deg F - 141 deg F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63226P Aromatic Hydrocarbon-B (5.9%), Barium Sulfate (6.8%), Bisphenol Epichlorohydrin Type Polymer (30.0%), Diacetone Alcohol (7.0%), Ethylbenzene (0.1-0.2%*@), Hydrous Magnesium Silicate (4.1%), Titanium Dioxide (37.3%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*)

GAL WT: 13.44 WT PCT SOLIDS: 80.35 VOL PCT SOLIDS: 64.67 SOLVENT DENSITY: 7.48 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100 deg F - 141 deg F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63326P Aromatic Hydrocarbon-B (5.4%), Barium Sulfate (7.2%), Bisphenol Epichlorohydrin Type Polymer (29.4%), Carbon Black (0.2%), Diacetone Alcohol (6.8%), Ethylbenzene (0.1-0.2%*@), Hydrous Magnesium Silicate (4.0%), Titanium Dioxide (36.3%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*) GAL WT: 13.46 WT PCT SOLIDS: 80.56 VOL PCT SOLIDS: 65.08 SOLVENT DEMSITY: 7.50 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100 deg F - 141 deg F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63526P Aromatic Hydrocarbon-B (5.8%), Barium Sulfate (6.7%), Bisphenoi Epichlorohydrin Type Polymer (30.8%), Diacetone Alcohol (6.9%), Ethylbenzene (0.1-0.2%*@), Hydrous Magnesium Silicate (4.1%), Titanium Dioxide (36.7%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene(1-4%*)

GAL WT: 13,38 WT PCT SOLIDS: 80,63 VOL PCT SOLIDS: 65,33 SOLVENT DENSITY: 7.48 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100 deg F - 141 deg F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63726P Aromatic Hydrocarbon-B (5.7%), Barium Sulfate (6.7%), Bisphenol Epichlorohydrin Type Polymer (31.2%), Diacetone Alcohol (6.8%), Ethylbenzene

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Silicate (12.7%), Isopropyl Alcohol (3.7%), N-Butyl Alcohol (5.7%*), Propylene Glycol Monomethyl Ether Acetate (10.0%), Titanium Dioxide (17.1%), Toluene (5.1%*@)

GAL WT: 11.79 WT PCT SOLIDS: 67.44 VOL PCT SOLIDS: 47.60 SOLVENT DENSITY: 7.32 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

823Y67635 Barium Sulfate (9.6%), Bisphenol A/Epichlorohydrin Polymer (25.3%), Ethyl Acetate (6.8%), Hydrous Magnesium Silicate (13.2%), Isopropyl Alcohol (3.5%), N-Butyl Alcohol (5.6%*), Propylene-Glycol Monomethyl Ether Acetate (10.2%), Titanium Dloxide (17.8%), Toluene (4.9%*@)
GAL WT: 11.93 WT PCT SOLIDS: 67.85 VOL PCT SOLIDS: 47.71
SOLVENT DENSITY: 7.33 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compilance PHOTOCHEMICALLY REACTIVE: YES

823¥67637 Barium Sulfate (9.7%), Bisphenol A/Epichlorohydrin Polymer (25.3%), Ethyl Acetate (6.9%), Hydrous Magnesium Silicate (13.2%), Isopropyl Alcohol (3.5%), N-Butyl Alcohol (5.6%*), Propylene Glycol Monomethyl Ether Acetate (10.2%), Titanium Dioxide (17.9%), Toluene (4.9%*@)

GAL WT: 11.91 WT PCT SOLIDS: 67.74 VOL PCT SOLIDS: 47.63 SOLVENT DENSITY: 7.33 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 0 OSHA STORAGE: 1B TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VF-333 Barium Sulfate (12.0%), Bisphenol-Epichlorohydrin Type Polymer (19.4%), Difsobutyl Ketone (4.3%), Ethyl Acetate (3.4%), Ethylene Glycol Monobutylether (12.4%*@), Hydrous Magnesium Silicate (10.4%), Kaolin (11.8%), Methyl Ethyl Ketone (2.8%*@), Phenolic Polymer (8.0%), Titanium Dloxide (9.4%), Urea Formaldehyde Resin (1.1%), 4,6-Dimethyl-2-Heptanone (1.1%)

GAL WT: 12.03 WT PCT SOLIDS: 74.67 VOL PCT SOLIDS: 57.59
SOLVENT DENSITY: 7.17 VOC LE: 3.0 VOC AP: 3.0 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VF-455 Barlum Sulfate (11.7%), Bisphenol-Epichlorohydrin Type Polymer (19.1%), Ethyl Acetate (3.2%), Hydrous Magneslum Silicate (9.5%), Kaolin (11.6%), Methyl Ethyl Ketone (11.0%*@), Phenolic Polymer (7.5%), Titanium Dioxide (9.2%), Toluene (11.8%*@), Urea Formaldehyde Resin (1.1%) GAL WT: 11.64 WT PCT SOLIDS: 72.36 VOL PCT SOLIDS: 54.10 SOLVENT DENSITY: 7.01 VOC LE: 3.2 VOC AP: 3.2 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VF-525 Bisphenol-Epichlorohydrin Type Polymer (36.0%), Ethyl Acetate (6.4%), Hydrous Magnesium Silicate (27.9%), N-Butyl Alcohol (2.4%*), Phenolic Polymer (14.9%), Toluene (10.0%*@)

GAL WT: 10.69 WT PCT SOLIDS: 80.89 VOL PCT SOLIDS: 71.84
SOLVENT DENSITY: 7.24 VOC LE: 2.0 VOC AP: 2.0 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VF-026 Acrylic Polymer-B (10.2%), Amidoamine Resin-B (20.9%), Amine Salt of Polycarbonic Acid (1.0%), Amorphous Silica Fumed (2.0%), Aromatic Hydrocarbon-A (1.0%), Aromatic Hydrocarbon-B (10.4%), Calcium Phosphosilicate (3.7%), Glycidyl Ester Of Tert Carboxylic Acid (10.7%), Hydrous Magnesium Silicate (5.6%), Kaolin (3.8%), Methyl Ethyl Ketone (9.0%*@), Mica (9.4%), N-Butyl Alcohol (3.1%*), Quartz-Crystalline Silica (0.5%), 1-,2,4-Trimethyl Benzene (2-7%*), 2,4,6-Dimethylaminomethyl Phenol (2.2%) GAL WT: 9.27 WT PCT SOLIDS: 70.45 VOL PCT SOLIDS: 60.91 SOLVENT DENSITY: 7.00 VOC LE: 2.7 VOC AP: 2.7 FLASH POINT: 20 deg F to

below 73 deg F H; 3 F; 3 R; 0 OSHA STORAGE; IB TSCA STATUS; In compliance PHOTOCHEMICALLY REACTIVE; YES

VG-026 Acrylic Polymer-B (25.6%), Amkloamine Resin-B (23.0%), Aromatic Hydrocarbon-B (11.3%), Cumene (0-1%*@), Glycidyl Ester Of Tert Carboxylic Acid (11.8%), Methyl Ethyl Ketone (11.6%*@), N-Butyl Alcohol (7.7%*), 1,2,4-Trimethyl Benzene (2-8%*), 2,-4,6-Dimethylaminomethyl Phenol (2.4%) GAL WT: 7.86 WT PCT SOLIDS: 62.79 VOL PCT SOLIDS: 58.04 SOLVENT DENSITY: 6.94 VOC LE: 2.9 VOC AP: 2.9 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 0 OSHA STORAGE; IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-450 Bisphenol-Epichlorohydrin Type Polymer (24.7%), Calcium Carbonate (6.3%), Hydrous Magnesium Silicate (26.0%), Methyl Isobutyl Ketone (9.9%*@), Organoclay (2.3%), Quartz-Crystalline Silica (2.7%), Titanium Dioxide (9.0%), Toluene (9.2%*@), Xylene (8.2%*@)

GAL WT: 11.88 WT PCT SOLIDS: 72.66 VOL PCT SOLIDS: 53.62 SOLVENT DENSITY: 7.00 VOC LE: 3.2 VOC AP: 3.2 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-451 Bisphenol-Epichlorohydrin Type Polymer (24.7%), Calcium Carbonate (6.3%), Hydrous Magnesium Silicate (26.0%), Methyl Isobutyl Ketone (9.9%*@), Organoclay (2.3%), Quartz-Crystalline Silica (2.7%), Titanium Dioxide (9.0%), Toluene (9.2%*@), Xylene (8.2%*@)

GAL WT: 11.88 WT PCT SOLIDS: 72.66 VOL PCT SOLIDS: 53.62 SOLVENT DENSITY: 7.0 VOC LE: 3.2 VOC AP: 3.2 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VG-400 Polyamide Resin (56.5%), Toluene (19.3%*@), Xylene (24.2%*@)
GAL WT: 7.69 WT PCT SOLIDS: 56.46 VOL PCT SOLIDS: 53.64 SOLVENT
DENSITY: 7.22 VOC LE: 3.3 VOC AP: 3.3 FLASH POINT: 20 deg F to
below 73 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In
compliance PHOTOCHEMICALLY REACTIVE: YES

525-2420 Bisphenol-Epichlorohydrin Type Polymer (48.6%), Hydrous Magnesium Silicate (39.6%), Para-Nonylphenol (4.9%), 2-Ethylhexyl Glycidyl Ether (4.7%)

GAL WT: 12.30 WT PCT SOLIDS: 99.05 VOL PCT SOLIDS: 98.21 SOLVENT DENSITY: 6.59 VOC LE: 0.1 VOC AP: 0.1 FLASH POINT: Above 200 deg F H: 1 F: 1 R: 0 OSHA STORAGE: IIIB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

FG-090 Amido Amine (47.3%*), Ethylbenzene (0.4-1.1%*@), Organophilic Clay (2.0%), Quartz-Crystalline Silica (44.0%), Xylene(3-4%*@), 2,4,6-Dimethylaminomethyl Phenol (2.4%)

GAL WT: 11.11 WT PCT SOLIDS: 95.69 VOL PCT SOLIDS: 93.34 SOLVENT DENSITY: 7.19 VOC LE: 0.5 VOC AP: 0.5 FLASH POINT: 20 deg F to below 73 deg F H: 2 F; 3 R: 0 OSHA STORAGE: IA TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VF-335 Barium Sulfate (11.9%), Bisphenol-Epichlorohydrin Type Polymer (19.2%), Carbon Black (0.1%), Ethyl Acetate (3.1%), Hydrous Magnesium Silicate (10.3%), Kaolin (11.7%), Methyl Ethyl Ketone (8.6%*@), Phenolic Polymer (7.9%), Titanium Dioxide (9.3%), Toluene (11.7%*@), Urea Formaldehyde Resin (1.1%)

GAL WT: 11.85 WT PCT SOLIDS: 74.30 VOL PCT SOLIDS: 56.71 SOLVENT DENSITY: 7.03 VOC LE: 3.0 VOC AP: 3.0 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES