Dolezal, Sabrina

From: Sviglin [ppoc@bellsouth.net]
Sent: Tuesday, May 02, 2006 12:22 PM
To: Dolezal, Sabrina
Subject: Bell Signs, Inc., 0050089

I have reviewed your calculations for VOC and HAPS and agree that your calcs are correct.

Original calculations were done on spread sheets by Bell Signs and when we tried to review them, we realized that a lot of MSDS were missing required information. Since, by then, the time was short, we were forced to accept verbal information which we received from Bell Signs.

Environmental Compliance Plan which will be part of Operation Permit application will elaborate on the need to obtain correct MSDS containing information needed to calculate VOC and HAP emissions. It will also address the procedure and form(s) on how to calculate the above emissions. It will also contain the form required to monitor pressure drops on the paint booths.

K. C. Sviglin

Dolezal, Sabrina

From: Dolezal, Sabrina
Sent: Friday, April 28, 2006 1:38 PM
To: 'ppoc@bellsouth.net'
Cc: White, Kevin M.
Subject: Bell Signs Pre-Draft Permit

Bell Signs)050089-001-AC.doc

Bell Signs MSDS Sheet.xls

Attached is the Department's current air construction permit for Bell Signs. Also attached are the Departments calculations for your review, these calculations differ from your submitted calculations. If you have any questions or comments concerning these documents, please contact either myself or Kevin White by May 5th, 2006. Be aware this permit is still under review and subject to change.

Sabrina Dolezal
Air Permitting Engineer
850-595-8300 x1229

Largest Individual HAP

Material	VOC				HAPS	
	Gals Used	%W	Density	Lb/yr	Total %W	Lb/yr
Wash Primer	167	0.7175	7.9	946.60	0.31	408.98
Wash Primer Activator	**162**	**0.9777**	**6.86**	**1086.54**	**0.71**	**789.04**
Clear Topcoat	12	1	7.15	85.80	0.048	4.12
2.8 High Build Primer (62-1632)	5	1	6.9	34.50	0.024	0.83
2.8 High Build Primer	11	1	6.9	75.90	0.024	1.82
2.8 Primer Activator	4	1	7.55	30.20	0.002	0.06
Clear Activator	2.75	1	7.5	20.63	0.043	0.89
Topcoat Activator	215	1	7.29	1567.35	0.002	3.13
Accelerator	5	1	8.12	40.60		
Flattening Clear	1	1	6.82	6.82	0.044	0.30
Rolling Additive	4	1	7.22	28.88	0.792	22.87
Metalok Primer	2	1	7.05	14.10	0.18	2.54
Metalok Activator	2	1	6.78	13.56	0.27	3.66
LEW	97	0.51	9.8	484.81		
Solvent Based Adhesion	10	0.75	7.51	56.33	0.959	72.02
3.5HG Tint	2	1	7.18	14.36	0.021	0.30
3.5HGTint (713P)	8	1	7.5	60.00	0.043	2.58
3.5 HG Tint (714P)	4	1	8.25	33.00	0.015	0.50
3.5 HG Tint (715P)	2	1	7.47	14.94	0.082	1.23
3.5 HG Tint (717P)	26	1	6.79	176.54		
3.5 HG Tint (718P)	6	1	7	42.00	0.049	2.06
3.5 HG Tint (719P)	1	1	6.82	6.82	0.016	0.11
3.5 HG Tint (720P)	3	1	7.24	21.72	0.041	0.89
3.5 HG Tint (721P)	6	1	7.08	42.48		
3.5 HG Tint (722P)	2	1	6.87	13.74	0.058	0.80
3.5 HG Tint (723P)	13	1	7.05	91.65	0.022	2.02
3.5 HG Tint (725P)	3	1	7.02	21.06	0.019	0.40
3.5 HG Tint (726P)	4	1	7.04	28.16	0.033	0.93
3.5 HG Tint (730P)	2	1	8.08	16.16		
3.5 Binder (40B)	42	1	7.33	307.86	0.043	13.24
3.5 Binder (41B)	24	1	7.23	173.52	0.03	5.21
3.5 Binder (60B)	30	0.4244	8.65	110.13	0.02	5.19
3.5 Binder (65B)	4	0.4244	8.65	14.68	0.02	0.69
Accelerator (8989S)	13.25	1	8.12	107.59		
3.5 HG Reducer (Y32035)	14	1	6.67	93.38	0.985	91.98
3.5 HG Reducer (68083)	161	1	7.53	1212.33	0.5	606.17
Accelerated Reducer	29	0.9	8.2	214.02		
Back Lite White	82	0.65	9.1	485.03	0.07	52.23
3.5 HG Mixed Color	564	0.82	8.6	3977.33	0.09	436.54
Plastic Intermix Binder	99	0.82	7.3	592.61	0.09	65.04
Alcohol Reducer Medium	265	1	6.8	1802.00	0.037	66.67

Material	VOC				HAPS	
	Gals Used	%W	Density	Lb/yr	Total %W	Lb/yr
Wash Primer	167	0.7175	7.9	946.60	0.43	567.30
Wash Primer Activator	162	0.9777	6.86	1086.54	0.86	955.74
Clear Topcoat	12	1	8.13	97.56	0.118	11.51
2.8 High Build Primer (62-1632)	5	1	10.99	54.95	0.03	1.65
2.8 High Build Primer	11	1	10.97	120.67	0.03	3.62
2.8 Primer Activator	4	1	9.1	36.40	0.002	0.07
Clear Activator	2.75	1	9.09	25.00	0.044	1.10
Topcoat Activator	215	1	9.35	2010.25	0.002	4.02
Accelerator	5	1	8.14	40.70	0	0.00
Flattening Clear	1	1	8.77	8.77	0.046	0.40
Rolling Additive	4	1	7.24	28.96	0.98	28.38
Metalok Primer	2	0.9991	11.62	23.22	0.202	4.69
Metalok Activator	2	0.8889	6.87	12.21	0.27	3.71
LEW	97	0.51	9.8	484.81	0	0.00
Solvent Based Adhesion	10	0.75	7.51	56.33	0.964	72.40
3.5HG Tint	2	0.6361	8.3	10.56	0.026	0.43
3.5HGTint (713P)	8	0.6361	8.46	43.05	0.065	4.40
3.5 HG Tint (714P)	4	0.6361	9.59	24.40	0.019	0.73
3.5 HG Tint (715P)	2	0.6361	8.41	10.70	0.13	2.19
3.5 HG Tint (717P)	26	0.6361	15.93	263.46	0	0.00
3.5 HG Tint (718P)	6	0.6361	7.72	29.46	0.049	2.27
3.5 HG Tint (719P)	1	0.6361	15.98	10.16	0.016	0.26
3.5 HG Tint (720P)	3	0.6361	8.17	15.59	0.041	1.00
3.5 HG Tint (721P)	6	0.6361	8.79	33.55	0	0.00
3.5 HG Tint (722P)	2	0.6361	12.08	15.37	0.058	1.40
3.5 HG Tint (723P)	13	0.6361	8.44	69.79	0.022	2.41
3.5 HG Tint (725P)	3	0.6361	8.25	15.74	0.019	0.47
3.5 HG Tint (726P)	4	0.6361	8.43	21.45	0.033	1.11
3.5 HG Tint (730P)	2	0.6361	9.16	11.65	0	0.00
3.5 Binder (40B)	42	0.6361	8.4	224.42	0.095	33.52
3.5 Binder (41B)	24	0.6361	8.7	132.82	0.072	15.03
3.5 Binder (60B)	30	0.4244	8.65	110.13	0.027	7.01
3.5 Binder (65B)	4	0.4244	8.65	14.68	0.057	1.97
Accelerator (8989S)	13.25	1	8.16	108.12	0	0.00
3.5 HG Reducer (Y32035)	14	1	6.67	93.38	0.985	91.98
3.5 HG Reducer (68083)	161	1	7.53	1212.33	0.997	1208.69
Accelerated Reducer	29	0.9	8.2	214.02	0	0.00
Back Lite White	82	0.65	9.1	485.03	0.127	94.77
3.5 HG Mixed Color	564	0.82	8.6	3977.33	0.247	1198.05
Plastic Intermix Binder	99	0.82	7.3	592.61	0.147	106.24
Alcohol Reducer Medium	265	1	6.8	1802.00	0.127	228.85
		Total (lb/yr)		14574.77		4657.38
		Total (tons/yr)		7.29		2.33

Material	VOC				HAPS		
	Gals Used in 05	%W	Density	Lb/yr	Total %W	Lb/yr	
Wash Primer	167	0.7175	7.9	946.60	0.43	567.30	Used incorrect percentage for HAI
Wash Primer Activator	162	0.9777	6.86	1086.54	0.86	955.74	Used incorrect percentage for HAI
Clear Topcoat	12	1	7.15	85.80	0.118	10.12	Used solvent density to calculate \
2.8 High Build Primer (62-1632)	5	1	6.9	34.50	0.03	1.04	Used solvent density to calculate \
2.8 High Build Primer	11	1	6.9	75.90	0.03	2.28	Used solvent density to calculate \
2.8 Primer Activator	4	1	7.55	30.20	0.002	0.06	Used solvent density to calculate \
Clear Activator	2.75	1	7.5	20.63	0.044	0.91	Used solvent density to calculate \
Topcoat Activator	215	1	7.29	1567.35	0.002	3.13	Used solvent density to calculate \
Accelerator	5	1	8.12	40.60	0	0.00	Used solvent density to calculate \
Flattening Clear	1	1	6.82	6.82	0.046	0.31	Used solvent density to calculate \
Rolling Additive	4	1	7.22	28.88	0.98	28.30	Used solvent density to calculate \
Metalok Primer	2	1	7.05	14.10	0.202	2.85	Used solvent density to calculate \
Metalok Activator	2	1	6.78	13.56	0.27	3.66	Used solvent density to calculate \
LEW	97	0.51	9.8	484.81	0	0.00	
Solvent Based Adhesion	10	0.75	7.51	56.33	0.964	72.40	Used solvent density to calculate \
3.5HG Tint	2	1	7.18	14.36	0.026	0.37	Used solvent density to calculate \
3.5HGTint (713P)	8	1	7.5	60.00	0.065	3.90	Used solvent density to calculate \
3.5 HG Tint (714P)	4	1	8.25	33.00	0.019	0.63	Used solvent density to calculate \
3.5 HG Tint (715P)	2	1	7.47	14.94	0.13	1.94	Used solvent density to calculate \
3.5 HG Tint (717P)	26	1	6.79	176.54	0	0.00	Used solvent density to calculate \
3.5 HG Tint (718P)	6	1	7	42.00	0.049	2.06	Used solvent density to calculate \
3.5 HG Tint (719P)	1	1	6.82	6.82	0.016	0.11	Used solvent density to calculate \
3.5 HG Tint (720P)	3	1	7.24	21.72	0.041	0.89	Used solvent density to calculate \
3.5 HG Tint (721P)	6	1	7.08	42.48	0	0.00	Used solvent density to calculate \
3.5 HG Tint (722P)	2	1	6.87	13.74	0.058	0.80	Used solvent density to calculate \
3.5 HG Tint (723P)	13	1	7.05	91.65	0.022	2.02	Used solvent density to calculate \
3.5 HG Tint (725P)	3	1	7.02	21.06	0.019	0.40	Used solvent density to calculate \
3.5 HG Tint (726P)	4	1	7.04	28.16	0.033	0.93	Used solvent density to calculate \
3.5 HG Tint (730P)	2	1	8.08	16.16	0	0.00	Used solvent density to calculate \
3.5 Binder (40B)	42	1	7.33	307.86	0.095	29.25	Used solvent density to calculate \
3.5 Binder (41B)	24	1	7.23	173.52	0.072	12.49	Used solvent density to calculate \
3.5 Binder (60B)	30	0.4244	8.65	110.13	0.027	7.01	
3.5 Binder (65B)	4	0.4244	8.65	14.68	0.057	1.97	
Accelerator (8989S)	13.25	1	8.12	107.59	0	0.00	Used solvent density to calculate \
3.5 HG Reducer (Y32035)	14	1	6.67	93.38	0.985	91.98	Used solvent density to calculate \

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DEP

Bell Signs, Inc.
Panama City, FL

MSDS Used to Calculate Emissions

April 2006

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
Imron®2.8 HC and Imron®3.5 HG Custom Colors, Binders and Tints

SECTION 1 - Product and Company Identification

Manufacturer: E.I. du Pont de Nemours & Co.
Dupont Performance Coatings
Wilmington, DE, 19898

Telephone:
Product Information: (800) 441-7515 338-7668
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **Imron®2.8 HC and Imron®3.5 HG Custom Colors, Binders and Tints**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ACETONE	67-64-1	180.0 @ 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-C	42767-92-0	None	A None O None
ACRYLIC POLYMER-D	70942-12-0	None	A None O None
ACRYLIC POLYMER-E	80010-53-3	None	A None O None
ALUMINUM HYDRATE	21645-51-2	None	A None O None
AMORPHOUS SILICA	7631-86-9	None	D 3.0 mg/m^3 8 hr PEL O 20.0 mppcf A 10.0 mg/m^3 Total Dust
AZO YELLOW PIGMENT	31837-42-0	None	A 10.0 mg/m^3 O15.0 mg/m^3 O 5.0 mg/m^3 Respirable Dust
BARIUM SULFATE	7727-43-7	None	A 10.0 mg/m^3 Total Dust D 10.0 mg/m^3 Total Dust O 15.0 mg/m^3 Total Dust A 5.0 mg/m^3 Respirable Dust O 5.0 mg/m^3 Respirable Dust
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	98-56-6	7.6 @ 25.0 °C	D 20.0 ppm 8 & 12 hour TWA A None O None
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERDINYL) SEBACATE	41556-26-7	None	A None O None
BUTANEDIOIC ACID, DIMETHYL ESTER	106-65-0	None	D 10.0 mg/m^3 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
CARBON BLACK	1333-86-4	None	A 3.5 mg/m^3 O 3.5 mg/m^3 D 0.5 mg/m^3 8 & 12 hour TWA
CELLULOSE ACETATE BUTYRATE	9004-36-8	None	A None O None
DIKETOPYRROLOPYRROL RED PIGMENT	84632-65-5	None	O15.0 mg/m^3 Total Dust PNOR O 5.0 mg/m^3 Respirable Dust PNOR A 3.0 mg/m^3

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709 P

NO units

VOC LE - less exempt (without H_2O)

VOC AP - as packaged

HC and Imron®3.5 HG Custom Colors, and Tints

, 2005

SECTION 8 - Exposure Controls or Personal Protection

Engineering controls and work practices:

Ventilation:

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

Respiratory:

Do not breathe vapors or mists. 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 clothing:

Neoprene gloves and coveralls are recommended.

Eye protection:

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

SECTION 9 - Physical and Chemical Properties

Evaporation Rate	Slower than Ether
Solubility in water	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	0 - 139 °C
Approx. freezing range (°C)	-92 - -82 °C
Gallon weight (lbs/gal)	7.72 - 15.98
Specific gravity	0.93 - 1.91
Percent volatile by volume	31.08 - 72.26
Percent volatile by weight	20.20 - 63.61
Percent solids by volume	27.75 - 68.92
Percent solids by weight	36.39 - 79.80

SECTION 10 - Stability and Reactivity

Stability: Stable

Incompatibility (materials to avoid): Water, alcohols, amines

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 100°F) and combustibles (flashpoint between 100-200°F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to mechanical impact: Not Applicable

SECTION 11 - Additional Information

PRODUCT CODE INGREDIENTS (Product Specific)

709P™ acrylic polymer-c(37.5%), ethylbenzene(0.5%*@), methyl amyl ketone(10.4%), primary amyl acetate(24.4%), quinacridone pigment(11.3%), xylene(2.1%*@), 2-methyl butyl acetate(13.3%) (1)

GAL WT: 8.30 WT PCT SOLIDS:48.81 VOL PCT SOLIDS:40.89
SOLVENT DENSITY: 7.18 VOC LE: 4.2 VOC AP: 4.2
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

713P™ acrylic polymer-c(37.2%), butyl acetate(17.4%), ethylbenzene(1.1%*@), methyl amyl ketone(7.9%), phthalocyanine blue pigment(7.2%), propylene glycol monomethyl ether acetate(22.0%), toluene(1.1%*@), xylene(4.3 %*@) (2)

GAL WT: 8.46 WT PCT SOLIDS:46.13 VOL PCT SOLIDS:39.18
SOLVENT DENSITY: 7.50 VOC LE: 4.6 VOC AP: 4.6
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

714P™ acrylic polymer-c(25.3%), butyl acetate(5.2%), ethylbenzene(0.4%*@), methyl amyl ketone(7.5%), propylene glycol monomethyl ether acetate (32.5%), quinophthalone yellow pigment(26.8%), xylene(1.5%*@) (3)

GAL WT: 9.59 WT PCT SOLIDS:52.75 VOL PCT SOLIDS:41.03
SOLVENT DENSITY: 8.25 VOC LE: 4.5 VOC AP: 4.5
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

715P™ acrylic polymer-c(50.5%), butyl acetate(6.4%), dioxazine carbozole pigment(2.1%), ethylbenzene(2.1%*@), methyl amyl ketone(9.5%), propylene glycol monomethyl ether acetate(20.6%), xylene(8.2%*@) (4)

GAL WT: 8.41 WT PCT SOLIDS:52.91 VOL PCT SOLIDS:46.93
SOLVENT DENSITY: 7.47 VOC LE: 4.0 VOC AP: 4.0
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

716P™ acrylic polymer-c(30.3%), barium sulfate(1.2%), butyl acetate(5.1%), ethylbenzene(0.5%*@), methyl amyl ketone(7.2%), pigment red 202(9.9%), propylene glycol monomethyl ether acetate (40.1%), toluene(1.9%*@), pigment red(1.2%), xylene(2.0%*@) (5)

GAL WT: 8.65 WT PCT SOLIDS:42.59 VOL PCT SOLIDS:35.65
SOLVENT DENSITY: 7.90 VOC LE: 5.0 VOC AP: 5.0
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 1 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

717P™ acrylic polymer-c(11.0%), aluminum hydrate(2.4%), amorphous silica(3.8%), methyl amyl ketone(20.2%), titanium dioxide(62.1%) (6)

GAL WT:15.93 WT PCT SOLIDS:79.80 VOL PCT SOLIDS:52.38
SOLVENT DENSITY: 6.79 VOC LE: 3.2 VOC AP: 3.2
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

718P™ acrylic polymer-c(30.4%), carbon black(6.0%), methyl amyl ketone (58.7%), toluene(4.9%*@) (7)

GAL WT: 7.72 WT PCT SOLIDS:36.39 VOL PCT SOLIDS:27.75
SOLVENT DENSITY: 7.00 VOC LE: 4.9 VOC AP: 4.9
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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Wt-% solids - 48.81

Vol % solids - 40.89

Imron®2.8 HC and Imron®3.5 HG Custom Colors, Binders and Tints

January 1, 2005

719P™ acrylic polymer-c(15.9%), methyl amyl ketone(19.1%), red iron oxide light(63.5%), toluene(1.6%*@)
GAL WT:15.98 WT PCT SOLIDS:79.36 VOL PCT SOLIDS:51.44
SOLVENT DENSITY: 6.82 VOC LE: 3.3 VOC AP: 3.3
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

720P™ acrylic polymer-c(44.8%), methyl amyl ketone(43.0%), phthalocyanine blue pigment(7.3%), toluene(4.1%*@)
GAL WT: 8.17 WT PCT SOLIDS:52.91 VOL PCT SOLIDS:43.39
SOLVENT DENSITY: 7.24 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 73°F to below 100°F H: 1 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

721P™ acrylic polymer-c(21.7%), methyl amyl ketone(43.2%), monoazo pigment(32.6%)
GAL WT: 8.79 WT PCT SOLIDS:54.28 VOL PCT SOLIDS:41.10
SOLVENT DENSITY: 7.08 VOC LE: 4.0 VOC AP: 4.0
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

722P™ acrylic polymer-c(21.0%), methyl amyl ketone(26.2%), toluene(5.8%*@), yellow iron oxide(47.1%)
GAL WT:12.08 WT PCT SOLIDS:68.04 VOL PCT SOLIDS:43.58
SOLVENT DENSITY: 6.87 VOC LE: 3.9 VOC AP: 3.9
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

723P™ acrylic polymer-c(27.7%), azo yellow pigment(24.1%), methyl amyl ketone(46.1%), toluene(2.2%*@)
GAL WT: 8.44 WT PCT SOLIDS:51.76 VOL PCT SOLIDS:39.96
SOLVENT DENSITY: 7.05 VOC LE: 4.1 VOC AP: 4.1
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

724P™ acrylic polymer-c(26.0%), barium sulfate(4.3%), isoindolinone pigment(24.3%), methyl amyl ketone(45.4%)
GAL WT: 8.89 WT PCT SOLIDS:54.57 VOL PCT SOLIDS:40.26
SOLVENT DENSITY: 7.06 VOC LE: 4.0 VOC AP: 4.0
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 1 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

725P™ acrylic polymer-c(28.5%), methyl amyl ketone(54.3%), phthalocyanine green pigment(15.2%), toluene(1.9%*@)
GAL WT: 8.25 WT PCT SOLIDS:43.76 VOL PCT SOLIDS:31.56
SOLVENT DENSITY: 7.02 VOC LE: 4.6 VOC AP: 4.6
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

726P™ acrylic polymer-c(26.6%), methyl amyl ketone(43.5%), quinacridone pigment(26.7%), toluene(3.3%*@)
GAL WT: 8.43 WT PCT SOLIDS:53.22 VOL PCT SOLIDS:41.95
SOLVENT DENSITY: 7.04 VOC LE: 3.9 VOC AP: 3.9
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

727P™ acrylic polymer-c(38.6%), methyl amyl ketone(39.3%), organic imide(1.1%), quinacridone pigment(17.1%), toluene(3.0%*@)
GAL WT: 8.50 WT PCT SOLIDS:57.66 VOL PCT SOLIDS:47.02
SOLVENT DENSITY: 7.23 VOC LE: 3.6 VOC AP: 3.6
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

728P™ acetone(2.6%), acrylic polymer-e(33.1%), amorphous silica(1.5%), butanedioic acid, dimethyl ester(2.4%), cellulose acetate butyrate(3.1%), dimethyl glutarate (7.4%), heptane(5.3%), hexanedioic acid, dimethyl ester(2.2%), medium mineral spirits(7.1%), methyl ethyl ketone(2.3%*@), propylene glycol monomethyl ether acetate(27.2%), toluene(4-4%*@)
GAL WT: 8.27 WT PCT SOLIDS:37.68 VOL PCT SOLIDS:31.72
SOLVENT DENSITY: 7.53 VOC LE: 5.1 VOC AP: 4.9
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

729P™ acetone(1.9%), acrylic polymer-e(40.2%), cellulose acetate butyrate(2.3%), dimethyl glutarate(1.7%), heptane(14.4%), methyl ethyl ketone(1.7%*@), propylene glycol monomethyl ether acetate(28.9%), toluene(6.6%*@)
GAL WT: 8.03 WT PCT SOLIDS:42.46 VOL PCT SOLIDS:35.45
SOLVENT DENSITY: 7.18 VOC LE: 4.6 VOC AP: 4.5
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

730P™ acrylic polymer-c(28.0%), diketopyrrolopyrrol red pigment(25.7%), methyl amyl ketone(11.3%), propylene glycol monomethyl ether acetate(34.9%)
GAL WT: 9.16 WT PCT SOLIDS:53.63 VOL PCT SOLIDS:44.66
SOLVENT DENSITY: 8.08 VOC LE: 4.2 VOC AP: 4.2
FLASH POINT: 100°F - 141°F H: 1 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

731P™ acrylic polymer-e(8.4%), hydrous magnesium silicate(24.7 %), magnesium silicate(25.1%), methyl ethyl ketone(19.3 %*@), propylene glycol monomethyl ether acetate(20.4 %)
GAL WT:11.55 WT PCT SOLIDS:59.42 VOL PCT SOLIDS:35.77
SOLVENT DENSITY: 7.30 VOC LE: 4.7 VOC AP: 4.7
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

740P™ acrylic polymer-a(19.7%), butyl acetate(22.4%), ethyl acetate(13.0%), ethylbenzene(1.1%*@), ethylene glycol monobutyl ether acetate(3.0%*@), methyl amyl ketone(4.2%), methyl ethyl ketone(1.1%*@), organoclay(3.1 %), polyester resin(26.9%), xylene(4.3%*@)
GAL WT: 8.40 WT PCT SOLIDS:50.85 VOL PCT SOLIDS:43.68
SOLVENT DENSITY: 7.33 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

741P™ acrylic polymer-d(23.4%), butyl acetate(10.5%), ethyl acetate(8.0%), ethylbenzene(0.7%*@), ethylene glycol monobutyl ether acetate(2.4%*@), methyl amyl ketone(8.0%), methyl ethyl ketone(1.1%*@), organoclay(1.5 %), polyester resin(40.1%), xylene(3.0%*@)
GAL WT: 8.70 WT PCT SOLIDS:66.20 VOL PCT SOLIDS:59.33
SOLVENT DENSITY: 7.23 VOC LE: 2.9 VOC AP: 2.9
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

748P™ bis(1,2,2,6,6-pentamethyl-4-piperdinyl) sebacate(1.3 %), ethyl acetate(9.7%), ethylbenzene(1.1%*@), ethylene glycol monobutyl ether acetate(12.6%*@), polyester resin(70.4%), xylene(4.4%*@)
GAL WT: 9.11 WT PCT SOLIDS:72.12 VOL PCT SOLIDS:66.58
SOLVENT DENSITY: 7.52 VOC LE: 2.5 VOC AP: 2.5
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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* per Robin Smith 740P is same as 40B
** " " " 741P is same as 41B

(20) (21) (22) (23)

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
DuPont® Thinners And Reducers

SECTION 1 - Product and Company Identification

Manufacturer: E.I. du Pont de Nemours & Co.
Dupont Performance Coatings
Wilmington, DE, 19898

Telephone:
Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **DuPont® Thinners And Reducers**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ACETONE	67-64-1	180.0 @ 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
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
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	98-56-6	7.6 @ 25.0°C	D 20.0 ppm 8 & 12 hour TWA A None O None
BUTANEDIOIC ACID, DIMETHYL ESTER	106-65-0	None	D 10.0 mg/m^3 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
CASHEW OF NUTSHELL LIQUID	8007-24-7	None	A None O None
CUMENE	98-82-8	3.7	A 50.0 ppm O 50.0 ppm Skin
DIACETONE ALCOHOL	123-42-2	0.9 @ 200.0°C	A 50.0 ppm TLV O 50.0 ppm TWA
DIMETHYL GLUTARATE	1119-40-0	0.2	D 10.0 mg/m^3 A None O None
ETHYL ACETATE	141-78-6	93.2 @ 25.0°C	A 400.0 ppm O 400.0 ppm
ETHYLBENZENE	100-41-4	7.0	A 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 D 5.0 ppm Skin O 50.0 ppm Skin
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	112-07-2	0.3	A 20.0 ppm D 10.0 ppm Skin O None
HEPTANE	142-82-5	45.0 @ 66.0°F	A 500.0 ppm 15 min STEL A 400.0 ppm O 500.0 ppm
HEXANEDIOIC ACID, DIMETHYL ESTER	627-93-0	None	D 10.0 mg/m^3 A None O None
ISOPROPYL ALCOHOL	67-63-0	33.0	A 500.0 ppm 15 min STEL A 400.0 ppm O 400.0 ppm D 400.0 ppm 8 & 12 hour TWA

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ners And Reducers

cetone(100.0%)
6.61 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
DENSITY: 6.61 VOC LE: 0.0 VOC AP: 0.0
POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

T-1022™ acetone(39.9%), benzene,1-chloro-4 (trifluoromethyl) (59.8%)
GAL WT: 8.75 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 8.75 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: Below 20°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

T-1025™ acetone(50.0%), cashew of nutshell liquid(1.0%), 2-hydroxyethyl ethers of cashew nutshell liquid(49.0%)
GAL WT: 7.21 WT PCT SOLIDS:50.00 VOL PCT SOLIDS:45.47
SOLVENT DENSITY: 6.59 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

T-0475™ acetone(29.5%), butyl acetate(18.6%), ethylene glycol monobutyl ether(2.5%*), heptane(17.4%), isopropyl alcohol (8.3%), propylene glycol monomethyl ether acetate(1.4%), toluene(20.9%*@)
GAL WT: 6.73 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.73 VOC LE: 6.8 VOC AP: 4.7
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

T- 6013™ ethylbenzene(16.7%*@), isopropyl alcohol(2.6%), methyl ethyl ketone(11.3%*@), propylene glycol monomethyl ether acetate(2.5%), xylene(66.5%*@)
GAL WT: 7.15 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.15 VOC LE: 7.2 VOC AP: 7.2
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

T- 8054™ aromatic hydrocarbon-b(57.5%), cumene(0-3%*@), n-butyl alcohol(9.4%*), xylene(0-3%*@), 1,2,4-trimethyl benzene(9-41%*)
GAL WT: 7.25 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.25 VOC LE: 7.3 VOC AP: 7.3
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

T- 8245™ aromatic hydrocarbon-b(31.8%), cumene(0-2%*@), n-butyl alcohol(49.9%*), xylene(0-2%*@), 1,2,4-trimethyl benzene(5-23%*)
GAL WT: 7.02 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.02 VOC LE: 7.0 VOC AP: 7.0
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

T- 8805™ ethylbenzene(19.7%*@), heptane(1.2%), xylene(78.3%*@)
GAL WT: 7.20 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.20 VOC LE: 7.2 VOC AP: 7.2
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

T- 8819™ ethylbenzene(8.0%*@), n-butyl alcohol(59.7%*), xylene (32.0%*@)
GAL WT: 6.94 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.94 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

TY 3810™ heptane(16-16%), methyl ethyl ketone(12.1%*@), toluene(14-14%*@), vm&p naphtha(55.1%), 2,2,4-trimethylpentane(1-3%@)
GAL WT: 6.37 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.37 VOC LE: 6.4 VOC AP: 6.4
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

TY 3819™ aromatic hydrocarbon-b(0-2%), medium mineral spirits (97.8%)
GAL WT: 6.48 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.48 VOC LE: 6.5 VOC AP: 6.5
FLASH POINT: 100°F - 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

TY 3826™ isopropyl alcohol(100.0%)
GAL WT: 6.55 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.55 VOC LE: 6.6 VOC AP: 6.6
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

TY 3871™ acetone(10.5%), diacetone alcohol(7.6%), methyl isobutyl ketone(7.2%*@), propylene glycol methyl ether(35.4 %), vm&p naphtha(37.7%), 2,2,4-trimethylpentane(0-2%@)
GAL WT: 6.89 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.89 VOC LE: 6.9 VOC AP: 6.2
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

TY 8593™ acetone(35.1%), butyl acetate(20.0%), n-butyl alcohol (5.0%*), petroleum naphtha(13.5%), propylene glycol monomethyl ether acetate(24.6%), toluene(1-2%*@)
GAL WT: 6.93 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.93 VOC LE: 7.2 VOC AP: 4.5
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

Y32035™ ethyl acetate(1.5%), methyl ethyl ketone(98.5%*@) 20
GAL WT: 6.67 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.67 VOC LE: 6.7 VOC AP: 6.7
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

Y32401™ ethylbenzene(0.3%*@), ethylene glycol monobutyl ether acetate(98.5%*@), xylene(1.2%*@) 21
GAL WT: 7.85 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.85 VOC LE: 7.9 VOC AP: 7.9
FLASH POINT: 141°F - 200°F H: 2 F: 2 R: 0 OSHA STORAGE: IIIA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

36407™ acetone(7.0%), ethylbenzene(0.8%*@), isopropyl alcohol(7.6%), methyl isoamyl ketone(1.6%), methyl isobutyl ketone(7.9%*@), n-butyl alcohol(6.2%*), toluene(65.5 %*@), xylene(3.4%*@)
GAL WT: 7.06 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.06 VOC LE: 7.1 VOC AP: 6.6
FLASH POINT: Below 20°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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

SECTION 6 - Accidental Release Measures

Steps to be taken in case material is released or spilled:
Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

SECTION 7 - Handling and Storage

Precautions to be taken in handling and storing:
Observe label precautions. If combustible (flashpoint between 100 - 200°F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100°F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20°F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F. If product is waterbased, do not freeze.

Other precautions:
If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation, and gloves.

SECTION 8 - Exposure Controls or Personal Protection

Engineering controls and work practices:
Ventilation:
Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.
Respiratory:
Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer s directions for respirator use. Do not permit anyone without protection in the painting area.
Protective clothing:
Neoprene gloves and coveralls are recommended.
Eye protection:
Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

SECTION 9 - Physical and Chemical Properties

Evaporation Rate	Slower than Ether
Solubility in water	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	No Data Available
Approx. freezing range (°C)	-96 - -93°C
Gallon weight (lbs/gal)	6.37 - 8.75
Specific gravity	0.76 - 1.05
Percent volatile by volume	54.53 - 100.00
Percent volatile by weight	50.00 - 100.00
Percent solids by volume	0.00 - 45.47
Percent solids by weight	0.00 - 50.00

SECTION 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 100°F) and combustibles (flashpoint between 100-200°F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.
Sensitivity to mechanical impact: Not Applicable

SECTION 11 - Additional Information

PRODUCT CODE **INGREDIENTS (Product Specific)**

RT001P™ butanedioic acid, dimethyl ester(5.9%), dimethyl glutarate(18.3%), hexanedioic acid, dimethyl ester(5.3%), methyl ethyl ketone(68.6%*@)
GAL WT: 7.24 WT PCT SOLIDS: 0.92 VOL PCT SOLIDS: 0.85
SOLVENT DENSITY: 7.24 VOC LE: 7.2 VOC AP: 7.2
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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

3924S™ acetone(30.6%), heptane(31.2%), isopropyl alcohol(13.2 %), mixed octanes(1.6%), toluene(22.5%*@)
GAL WT: 6.44 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.44 VOC LE: 6.4 VOC AP: 4.5
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

3979S™ aromatic hydrocarbon-a(6.2%), ethylene glycol monobutyl ether acetate(30.0%*@), medium mineral spirits(8.0 %), naphthalene(0.1-0.7%*@), propylene glycol monomethyl ether acetate(54.7%)
GAL WT: 7.78 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.78 VOC LE: 7.8 VOC AP: 7.8
FLASH POINT: 100°F - 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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37692™ acetone(28.3%), butyl acetate(8.1%), ethylbenzene(6.0 %*@), ethylene glycol monobutyl ether acetate(13.0%*@), n-butyl alcohol(8.6%*), toluene(12.2%*@), xylene(23.8 %*@)
GAL WT: 7.08 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.08 VOC LE: 7.3 VOC AP: 5.1
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

68083™ ethylbenzene(10.0%*@), ethylene glycol monobutyl ether acetate(50.0%*@), xylene(39.7%*@)
GAL WT: 7.53 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.53 VOC LE: 7.5 VOC AP: 7.5
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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68084™ ethyl acetate(14.6%), ethylbenzene(7.7%*@), ethylene glycol monobutyl ether acetate (42.6%*@), xylene(32-38 %*@)
GAL WT: 7.53 WT PCT SOLIDS: 0.30 VOL PCT SOLIDS: 0.26
SOLVENT DENSITY: 7.53 VOC LE: 7.5 VOC AP: 7.5
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 Government Industrial Hygienists.
IARC = International agency for Research on Cancer.
NTP = National Toxicology Program.
OSHA = Occupational Safety and Health Administration.
PNOR = Particles Not Otherwise Regulated.
PNOC = Particles Not Otherwise Classified.
STEL = Short Term Exposure Limit.
TWA = Time Weighted Average.
TM = Is a Trademark of E.I. DuPont de Nemours & Co.
* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.
@ = Clean Air Act Hazardous Air Pollutant.
# = EPCRA Section 302 - Extremely Hazardous Substance.

NOTICE:
The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales
Prepared by: M. C. Gangi

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MATERIAL SAFETY DATA SHEET
ACCELERATED REDUCER

Section 1 – Product Information

Date of Preparation: May 12, 2004

Manufacturer: Clearstar Coatings Corp.
PO Box 390
Isle of Palms, SC 29451
USA
1-843-886-0094
1-843-886-3701 (FAX)

Emergency Telephone: For transportation emergencies call –
1-800-424-9300 Domestic
1-703-527-3887 International

Product Code: R2007 and R2008 CS2008

Section II – Hazardous Ingredients

Hazardous Ingredient	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD50 Oral	LD50 Derm.	LC50 Inhal.	LEL @ 25 C
Methyl Ethyl Ketone*	78-93-3	77.5	200 ppm	200 ppm	2737	13000	9610	1.1
Propylene Glycol Methyl Ether Acetate	108-65-8	3.8	n.av.	n. av.	8532	5000	n.av.	1.5
Xylene*	1330-207		100ppm	100ppm	4300	14100	5000	1.5
(*Sara 313 listed)								

SEE EMAIL FROM: ROBIN SMITH 4/14/06

Section III – Physical Data

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Boiling Range: 312 - 367° F
Weight per Gallon (density): 8.2 (.98)
Percent Volatile by Volume: 90
Odor and Appearance: Organic Odor, colored liquid
Odor Threshold, pH, Coefficient of water/oil distribution: Not applicable.

Section IV – Fire or Explosion Hazard

Flash Point (SFCC): 21°F
Lower Explosive Limit: 1.0
NFPA flammability: IB
Extinguishing Media: Foam, carbon dioxide, dry chemicals. Water jet or stream is unsuitable.
Unusual Fire & Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may burst (due to build up of steam pressure) when exposed to extreme heat. Burning produces smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Seek medical attention.
Special Fire Fighting Procedures: To prevent pressure build up, water should be used to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

Section V – Reactivity Data

Stability: Stable
Incompatibility: Alkalis, acids and oxidizers..
Hazardous Decomposition Products: Oxides of carbon.
Hazardous Polymerization: Will not occur.
Conditions to avoid: Heat, open flames, sparks.

Section VI – Toxicological Properties

Threshold Limit Value: None established.

Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be Carcinogenic.

Exposure effects:
Inhalation: (Acute) Nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation.
(Chronic) Delayed lung damage, kidney, liver, and cardiac disorders.
Skin Contact: (Acute) Extraction of natural oils with resulting skin irritation, dryness and discomfort.
(Chronic) Sensitization to skin may occur.
Eye Contact: (Acute) Irritation, redness, pain, blurred vision, sensation of seeing halos around lights and reversible damage.
Ingestion: (Acute and Chronic) Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Chronic Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII – Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Dike to reduce extent of spill.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements.
Respiratory Protection: Adequate ventilation. Provide sufficient ventilation to keep vapor concentration below the TLV and/or PEL.
Protective Gloves: Required for prolonged and repeated contact. Refer to safety equipment supplier for effective glove recommendations.

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MATERIAL SAFETY DATA SHEET
PAINTS & COATINGS

Section 1 – Product Information

Date of Preparation: February 16, 2001

Manufacturer: Clearstar Coatings Corp.
811 Palm Blvd.
Isle of Palms, SC 29451
USA
1-843-886-0094
1-843-886-3701 **(FAX)**

Emergency Telephone: For transportation emergencies call –
1-800-424-9300 Domestic
1-703-527-3887 International

Product Code: **SBPCB** PIB

Product Description: **Solvent Borne Plastic Intermix Clear Binder**

Section II – Hazardous Ingredients

Hazardous Ingredient	Sara 313 % By Weight	CAS No.	Exposure limits PPM ACGIH TLV	OSHA PEL	OTHER LIMIT
Ethyl Alcohol		64-17-5	1000	1000	
Methyl Isobutyl Ketone ✓		108-10-1	50	50	75 STEL
Ethylene Glycol Monobutyl ✓ Ether*	3.7%	111-76-2	25	25	39.4 Ceiling
Isopropyl Alcohol		67-63-0	400	400	600 STEL
n-Butyl Alcohol*	7%	71-36-3	50 Ceiling	100	8000 IDLH
Toluene*,** ✓	9%	108-88-3	50	200	
Benzene*,** ✓	trace	71-43-2	3	5	
Methanol* ✓	1%	67-56-1	200	200	25000 IDLH

* SARA 313 LISTED
** PROP 65 LISTED

Section III – Physical Data

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Boiling Point: 148 – 340 ° F
Weight per Gallon (density): 7.3 (.88)
Percent Volatile by Volume: 82
Odor and Appearance: Organic Odor, clear liquid
Odor Threshold, pH, Coefficient of water/oil distribution: Not applicable.

Section IV – Fire or Explosion Hazard

Flash Point (TCC): 45°F
Lower Explosive Limit: 1.1
Upper Explosive Limit: 36
NFPA flammability: 1B
Extinguishing Media: Foam, carbon dioxide, dry chemicals. Water jet or stream is unsuitable.
Unusual Fire & Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may burst (due to build up of steam pressure) when exposed to extreme heat. Burning produces smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Seek medical attention. Vapors from this product may travel or move by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from handling point. Vapors may settle in low or confined areas, or travel a long distance to an ignition source and flash back explosively.
Special Fire Fighting Procedures: To prevent pressure build up, water should be used to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

Section V – Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur.
Incompatibility: Alkalis, acids and oxidizers, calcium hypochloride, sodium hypochloride, halogen compounds, amines.
Hazardous Decomposition Products: May liberate carbon monoxide, carbon dioxide, aldehydes.
Conditions to avoid: Heat, open flames, sparks.

Section VI – Toxicological Properties

Threshold Limit Value: None established.

Cancer Risks: Benzene is known to NTP, IARC, ACGIH or OSHA to be Carcinogenic.

Exposure effects:
Inhalation: (Acute) Nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis,

M ERIAL SAFETY DATA SHEET
PAINTS & COATINGS

(26)

Section 1 – Product Information

Date of Preparation: October 12, 2000

Manufacturer: Clearstar Coatings Corp.
811 Palm Blvd.
Isle of Palms, SC 29451
USA
1-843-886-0094
1-843-886-3701 (FAX)

Emergency Telephone: For transportation emergencies call –
1-800-424-9300 Domestic
1-703-527-3887 International

Product Code: **LEW Light Enhancement White**

Section II – Hazardous Ingredients

Hazardous Ingredient	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD50 Oral	LD50 Derm.	LC50 Inhal.	LEL @ 25 C
Propylene Glycol Methyl Ether Acetate	108-65-6	3.4	100ppm	n.av.	8532	5000	n.av.	1.5
Butyl Acetate X	123-86-4	8	150ppm	150ppm	10768	17600	2200	1.7
2-butoxy Ethyl Acetate* X	112-07-2	.2	n. av.	n. av.	2400	1500	n. av.	.5
Amorphous Fumed Silica X	112945-52-2	n.ap.	n.av.	20mppcf	>5000	n.av.	n.est.	none

*SARA 313 LISTED

Section III – Physical Data

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Boiling Range: 213 - 385° F
Weight per Gallon (density): 9.8 (1.18)
Percent Volatile by Volume: 51
Odor and Appearance: Organic Odor, white liquid
Odor Threshold, pH, Coefficient of water/oil distribution: Not applicable.

Section IV – Fire or Explosion Hazard

Flash Point (SFCC): 60°F
Lower Explosive Limit: 1.2
NFPA flammability: 1B
Extinguishing Media: Foam, carbon dioxide, dry chemicals. Water jet or stream is unsuitable.
Unusual Fire & Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may burst (due to build up of steam pressure) when exposed to extreme heat. Burning produces smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Seek medical attention.
Special Fire Fighting Procedures: To prevent pressure build up, water should be used to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

Section V – Reactivity Data

Stability: Stable
Incompatibility: Alkalis, acids and oxidizers..
Hazardous Decomposition Products: Oxides of carbon.
Hazardous Polymerization: Will not occur.
Conditions to avoid: Heat, open flames, sparks.

Section VI – Toxicological Properties

Threshold Limit Value: None established.

Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be Carcinogenic.

Exposure effects:
Inhalation: (Acute) Nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation.
(Chronic) Delayed lung damage, kidney, liver, and cardiac disorders.
Skin Contact: (Acute) Extraction of natural oils with resulting skin irritation, dryness and discomfort.
(Chronic) Sensitization to skin may occur.
Eye Contact: (Acute) Irritation, redness, pain, blurred vision, sensation of seeing halos around lights and reversible damage.
Ingestion: (Acute and Chronic) Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Chronic Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII – Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Dike to reduce extent of spill.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements.
Respiratory Protection: Adequate ventilation. Provide sufficient ventilation to keep vapor concentration below the TLV and/or PEL.

MATERIAL SAFETY DATA SHEET
Clear Coating

Rec 1/12 27

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Section 1 – Product Information

Date of Preparation: January 21, 2002

Manufacturer: Clearstar Coatings Corp.
PO Box 390
Isle of Palms, SC 29451-2217
1-843-886-0094
1-843-886-3701 FAX

Emergency Telephone: For transportation emergencies call –
1-800-424-9300 Domestic
1-703-527-3887 International

Product Code: SBAP **Solvent Based Adhesion Promoter** SBAP/SAP

Section II – Hazardous Ingredients

Hazardous Ingredient	CAS No.	Wt. %	ACGIH TLV	OSHA PEL	LD50 Oral	LD50 Derm.	LC50 Inhal.	LEL @ 25 C
Xylene*	1330-20-7	95.9	100ppm	100ppm	4300	14100	5000	1.5
Modified Chlorinated Polyolefin	proprietary	3						
Epoxidized oil	61789-01-3	.6						
Chlorobenzene*	108-90-7	.5	10ppm	75ppm	n/a	n/a	n/a	n/a
*Sara 313 Listed								

Section III – Physical Data

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Boiling Range: 138 – 140 °C
Weight per Gallon (density): 7.51 (.9026)
Percent Volatile by Volume: 75
Odor and Appearance: Organic Odor, clear liquid
Odor Threshold, pH, Coefficient of water/oil distribution: Not applicable.

Section IV – Fire or Explosion Hazard

Flash Point (tag closed cup): 28°C (82°F)
Extinguishing Media: Foam, carbon dioxide, dry chemicals. Water jet or stream is unsuitable.
Unusual Fire & Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may burst (due to build up of steam pressure) when exposed to extreme heat. Burning produces smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Seek medical attention.
Special Fire Fighting Procedures: To prevent pressure build up, water should be used to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

Section V – Reactivity Data

Stability: Stable
Incompatibility: Alkalis, acids and oxidizers..
Hazardous Decomposition Products: Oxides of carbon.
Hazardous Polymerization: Will not occur.
Conditions to avoid: Heat, open flames, sparks.

Section VI – Toxicological Properties

Threshold Limit Value: None established.

Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be Carcinogenic.

Exposure effects:
Inhalation: (Acute) Nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation.
(Chronic) Delayed lung damage, kidney, liver, and cardiac disorders.
Skin Contact: (Acute) Extraction of natural oils with resulting skin irritation, dryness and discomfort.
(Chronic) Sensitization to skin may occur.
Eye Contact: (Acute) Irritation, redness, pain, blurred vision, sensation of seeing halos around lights and reversible damage.
Ingestion: (Acute and Chronic) Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Chronic Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII – Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Dike to reduce extent of spill.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements.
Respiratory Protection: Adequate ventilation. Provide sufficient ventilation to keep vapor concentration below the TLV and/or PEL.
Protective Gloves: Required for prolonged and repeated contact. Refer to safety equipment supplier for effective glove recommendations.
Eye Protection: Use safety eyewear designed to protect against splash of liquids.

(28) (29) (30) (31) (32) (33) (34) (35) (22) - Duplicate.

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
IMRON®ACTIVATORS AND ADDITIVES

SECTION 1 - Product and Company Identification

Manufacturer: E.I. du Pont de Nemours & Co.
Dupont Performance Coatings
Wilmington, DE, 19898

Telephone:
Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **IMRON®ACTIVATORS AND ADDITIVES**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
X ACETONE	67-64-1	180.0 @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
X ACRYLIC POLYMER	104032-39-5	None	A None O None
X ALIPHATIC POLYISOCYANATE RESIN	28182-81-2	None	S 1.0 mg/m^3 15 min STEL S 0.5 mg/m^3 A None O None
X AMORPHOUS SILICA - PRECIPITATED	112926-00-8	None	A 10.0 mg/m^3 D 3.0 mg/m^3 Respirable Dust O None
X AMORPHOUS SILICA - SILICA BASE	63231-67-4	None	A 10.0 mg/m^3 D 1.0 mg/m^3 Respirable Dust O None
X AROMATIC HYDROCARBON-B	64742-95-6	10.0 @ 25.0 °C	D 50.0 ppm A None O None
X BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	98-56-6	7.6 @ 25.0 °C	D 20.0 ppm 8 & 12 hour TWA A None O None
X BUTANEDIOIC ACID, DIMETHYL ESTER	106-65-0	None	D 10.0 mg/m^3 A None O None
X BUTYL ACETATE	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
X DIBUTYL TIN DILAURATE	77-58-7	0.2 @ 160.0 °C	O 0.1 mg/m^3 Sn A 0.2 mg/m^3 15 min STEL Skin Sn A 0.1 mg/m^3 Skin Sn
X DIMETHYL GLUTARATE	1119-40-0	0.2	D 10.0 mg/m^3 A None O None
X ETHYL ACETATE	141-78-6	93.2 @ 25.0 °C	A 400.0 ppm O 400.0 ppm
✓ ETHYLBENZENE	100-41-4	7.0	A 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 ACETATE	112-07-2	0.3	A 20.0 ppm D 10.0 ppm Skin O None
X METHYL ACETATE	79-20-9	171.3 @ 68.0 °F	A 200.0 ppm TWA O 200.0 ppm TWA A 250.0 ppm STEL O 250.0 ppm STEL

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SECTION 11 - Additional Information

PRODUCT CODE INGREDIENTS (Product Specific)

FG-062™ aliphatic polyisocyanate resin(74.9%), butyl acetate (12.5%), propylene glycol monomethyl ether acetate(8.7 %), 1,6-hexamethylene diisocyanate(0.2%*@), 2-ethylhexyl acetate(3.8%)
GAL WT: 9.10 WT PCT SOLIDS:75.00 VOL PCT SOLIDS:69.90
SOLVENT DENSITY: 7.55 VOC LE: 2.3 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

FG-1333™ aliphatic polyisocyanate resin(94.0%), benzene,1-chloro-4 (trifluoromethyl)(2.9%), methyl acetate(2.0%), 1,6-hexamethylene diisocyanate(0.2%*@)
GAL WT: 9.55 WT PCT SOLIDS:95.06 VOL PCT SOLIDS:95.01
SOLVENT DENSITY: 9.46 VOC LE: 0.0 VOC AP: 0.0
FLASH POINT: 141°F - 200°F H: 2 F: 2 R: 1 OSHA STORAGE: IIIA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

FG-633™ aliphatic polyisocyanate resin(89.8%), aromatic hydrocarbon-b(3.2%), butyl acetate(5.0%), 1,2,4-trimethyl benzene(1-2%*), 1,6-hexamethylene diisocyanate(0.2 %*@)
GAL WT: 9.35 WT PCT SOLIDS:90.00 VOL PCT SOLIDS:87.23
SOLVENT DENSITY: 7.29 VOC LE: 0.9 VOC AP: 0.9
FLASH POINT: 100°F - 141°F H: 2 F: 2 R: 1 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VG- 610™ aliphatic polyisocyanate resin(74.8%), butyl acetate (6.9%), ethyl acetate(13.8%), ethylene glycol monobutyl ether acetate(4.3%*@), 1,6-hexamethylene diisocyanate(0.1%*@)
GAL WT: 9.09 WT PCT SOLIDS:74.96 VOL PCT SOLIDS:69.77
SOLVENT DENSITY: 7.50 VOC LE: 2.3 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

VGY 611™ aliphatic polyisocyanate resin(74.8%), butyl acetate (6.9%), ethyl acetate(13.8%), ethylene glycol monobutyl ether acetate(4.3%*@), 1,6-hexamethylene diisocyanate(0.1%*@)
GAL WT: 9.09 WT PCT SOLIDS:74.99 VOL PCT SOLIDS:69.80
SOLVENT DENSITY: 7.50 VOC LE: 2.3 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

VG- 6005™ aliphatic polyisocyanate resin(89.8%), aromatic hydrocarbon-b(3.2%), butyl acetate(5.0%), 1,2,4-trimethyl benzene(1-2%*), 1,6-hexamethylene diisocyanate(0.2 %*@)
GAL WT: 9.35 WT PCT SOLIDS:90.00 VOL PCT SOLIDS:87.23
SOLVENT DENSITY: 7.29 VOC LE: 0.9 VOC AP: 0.9
FLASH POINT: 100°F - 141°F H: 2 F: 2 R: 1 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VGM 6005™ aliphatic polyisocyanate resin(89.8%), aromatic hydrocarbon-b(3.2%), butyl acetate(5.0%), 1,2,4-trimethyl benzene(1-2%*), 1,6-hexamethylene diisocyanate(0.2 %*@)
GAL WT: 9.35 WT PCT SOLIDS:90.00 VOL PCT SOLIDS:87.23
SOLVENT DENSITY: 7.29 VOC LE: 0.9 VOC AP: 0.9
FLASH POINT: 100°F - 141°F H: 2 F: 2 R: 1 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VH-Y-691™ dibutyl tin dilaurate(1.6%), ethyl acetate(98.3%)
GAL WT: 7.54 WT PCT SOLIDS: 1.55 VOL PCT SOLIDS: 1.34
SOLVENT DENSITY: 7.52 VOC LE: 7.4 VOC AP: 7.4
FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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

389S™ dibutyl tin dilaurate(1.0%), 2,4-pentanedione(99.0%)
GAL WT: 8.14 WT PCT SOLIDS: 1.00 VOL PCT SOLIDS: 0.94
SOLVENT DENSITY: 8.12 VOC LE: 8.1 VOC AP: 8.1
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

611P™ acrylic polymer(50.2%), butanedioic acid, dimethyl ester(1.1%), butyl acetate(4.3%), dimethyl glutarate(3.3 %), ethylbenzene(0.3-0.3%*@), ethylene glycol monobutyl ether acetate(2.5%*@), methyl amyl ketone(24.2%), methyl ethyl ketone(2.9%*@), substituted benzotriazole(1.3%), toluene(5-5%*@), xylene(1-1%*@)
GAL WT: 8.13 WT PCT SOLIDS:53.04 VOL PCT SOLIDS:46.58
SOLVENT DENSITY: 7.15 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

613P™ acetone(14.3%), acrylic polymer(35.5%), amorphous silica - precipitated(16.3%), amorphous silica - silica base(4.0%), butyl acetate(3.0%), ethylbenzene(0.2-0.2 %*@), methyl amyl ketone(17.8%), toluene(4-4%*@)
GAL WT: 8.78 WT PCT SOLIDS:57.92 VOL PCT SOLIDS:45.82
SOLVENT DENSITY: 6.81 VOC LE: 3.0 VOC AP: 2.4
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

193S™ aliphatic polyisocyanate resin(74.8%), butyl acetate (6.9%), ethyl acetate(13.8%), ethylene glycol monobutyl ether acetate(4.3%*@), 1,6-hexamethylene diisocyanate(0.2%*@)
GAL WT: 9.02 WT PCT SOLIDS:74.99 VOL PCT SOLIDS:70.02
SOLVENT DENSITY: 7.50 VOC LE: 2.3 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

RK-29000™ acetone(14.2%), acrylic polymer(35.3%), amorphous silica - precipitated(16.4%), amorphous silica - silica base(3.7%), butyl acetate(3.0%), ethylbenzene(0.1-0.2 %*@), methyl amyl ketone(17.8%), toluene(4-4%*@)
GAL WT: 8.77 WT PCT SOLIDS:57.52 VOL PCT SOLIDS:45.47
SOLVENT DENSITY: 6.82 VOC LE: 3.1 VOC AP: 2.5
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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

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1 DUPONT MATERIAL SAFETY DATA SHEET Page: 1
02/27/2003

****** SECTION 1 - Product and Company Identification ******

Manufacturer: E.I. DuPont de Nemours & Co.
Dupont Performance Coatings
Wilmington, DE, 19898

Telephone: Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

PRODUCT NAME: PRETREATMENT WASH PRIMER

PRODUCT CODE: 691-475 36 021209

Chemical Family: Primer-Solventborne

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

CAS #	Ingredient	Concentration/ Range (%)	Exposure Limits**	
27360-07-2	POLYVINYL BUTRYAL RESIN	5- 15	A	None
			O	None
96446-61-2	BUTYLATED PHENOL-FORMALD-EHYDE RESIN	5- 15	A	None
			O	None
71-36-3	N-BUTYL ALCOHOL	9	A	20.0 ppm
			O	100.0 ppm
			D	50.0 ppm 15 min TWA
			D	25.0 ppm
78-93-3	METHYL ETHYL KETONE	31	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
108-10-1	METHYL ISOBUTYL KETONE	12	A	75.0 ppm 15 min STEL
			A	50.0 ppm
			O	100.0 ppm
64-17-5	ETHYL ALCOHOL	16- 26	A	1000.0 ppm
			O	1000.0 ppm

1 691-475 DUPONT MATERIAL SAFETY DATA SHEET Page: 2
02/27/2003

****** SECTION 2 - Composition, Information on Ingredients ******
Cont'd

D 1000.0 ppm

****** SECTION 7 - Handling and Storage ******

Precautions to be taken in handling and storing:
Observe label precautions. Keep away from heat, sparks, flame, static discharge and other sources of ignition. VAPORS MAY CAUSE FLASH FIRE. Close container after each use. Ground containers when pouring. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F.

OSHA/NFPA Storage Classification: IB

Other precautions:
If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation, and gloves.

****** SECTION 8 - Exposure Controls or Personal Protection ******

Engineering controls and work practices:
Ventilation:
Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

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

****** SECTION 8 - Exposure Controls or Personal Protection ******
Cont'd

Respiratory:
Do not breathe vapors or mists. Wear an appropriate, properly fitted NIOSH approved respirator during application and until all vapors and spray mists are exhausted unless air monitoring demonstrates vapor/mist levels are below applicable limits. If respirators are required, use a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A). In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use.

Protective clothing:
Neoprene gloves and coveralls are recommended.

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

****** SECTION 9 - Physical and Chemical Properties ******

Evaporation Rate	Slower than Ether
Vapor Pressure of principal solvent	71.00 mm
Solubility of solvent in water	NIL
Vapor density of principal solvent (Air = 1)	2.50
Approx. Boiling range	46 - 117 DEG (C)
Approx. Freezing range	-86 - -88 DEG (C)
Gallon weight (lbs/gal)	7.90
Specific gravity	0.95
Percent volatile by volume	85.19

volatile by weight	71.75
C solids by volume	14.81
ent solids by weight	28.25
or	Characteristic Paint Odor
Appearance	liquid primer
Physical state	Liquid
pH (waterborne systems only)	Not Applicable
VOC* less exempt (lbs/gal)	5.7
VOC* as packaged (lbs/gal)	5.7

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

****** SECTION 10 - Stability and Reactivity ******

Stability:
Stable

****** SECTION 10 - Stability and Reactivity ******
Cont'd

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:
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

****** SECTION 11 - Toxicological Information ******

No Information Available

****** SECTION 12 - Ecological Information ******

No Information Available

****** SECTION 13 - Disposal Considerations ******

Waste disposal method:
Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers.

****** SECTION 14 - Transportation Information ******

No Information Available

****** SECTION 15 - Regulatory Information ******

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

MSDS DIC 3
January 1, 2005

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
Imron®2.1-HG, 2.8-HG, 3.5-HG Solid Enamels; Imron®2.8 FT-C, 3.4HG-C, 3.5HG-C Clears; Imron®2.8-PR Primers

SECTION 1 - Product and Company Identification

Manufacturer: E.I. du Pont de Nemours & Co.
Du Pont Performance Coatings
Wilmington, DE, 19898

Telephone:
Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **Imron®2.1-HG, 2.8-HG, 3.5-HG Solid Enamels; Imron®2.8 FT-C, 3.4HG-C, 3.5HG-C Clears; Imron®2.8-PR Primers**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ACETONE	67-64-1	180.0@68.0°F	A 750.0ppm 15 min STEL A 500.0ppm O 1000.0ppm D 500.0ppm 8 & 12 hour TWA
ACRYLIC POLYMER-A	Not Avail	None	A None O None
X ACRYLIC POLYMER-B	42767-92-0	None	A None O None
X ACRYLIC POLYMER-C	70942-12-0	None	A None O None
X ACRYLIC POLYMER-D	104032-39-5	None	A None O None
X ALUMINUM	7429-90-5	10.0@77.0°F	O 15.0mg/m^3 Total Dust A 5.0mg/m^3
X ALUMINUM HYDRATE	21645-51-2	None	A None O None
X AMORPHOUS SILICA-A	7631-86-9	None	D 3.0mg/m^3 8 hr PEL O 20.0mppcf A 10.0mg/m^3 Total Dust
X AMORPHOUS SILICA - PRECIPITATED	112926-00-8	None	A 10.0mg/m^3 D 3.0mg/m^3 Respirable Dust O None
X AMORPHOUS SILICA - SILICA BASE	63231-67-4	None	A 10.0mg/m^3 D 1.0mg/m^3 Respirable Dust O None
X AMORPHOUS SILICA-FUMED	68611-44-9	None	D 1.0mg/m^3 Respirable Dust A 2.0mg/m^3 Respirable Dust O None
X AROMATIC HYDROCARBON-B	64742-95-6	10.0@25.0°C	D 50.0ppm A None O None
X AZO YELLOW PIGMENT	31837-42-0	None	A 10.0mg/m^3 O 15.0mg/m^3 O 5.0mg/m^3 Respirable Dust
X BARIUM SULFATE	7727-43-7	None	A 10.0mg/m^3 Total Dust D 10.0mg/m^3 Total Dust O 15.0mg/m^3 Total Dust A 5.0mg/m^3 Respirable Dust

37 38 39 40 41 42 43 44

334M12134™ acetone(7.6%), acrylic polymer-d(30.9%), amorphous silica-precipitated (8.7%), amorphous silica - silica base(2.0%), butyl acetate(8.3%), carbon black(1.5%), ethyl acetate(1.2%), ethylbenzene(0.6%*@), methyl amyl ketone (11.4%), polyester resin(4.4%), propylene glycol monomethyl ether acetate (2.8%), titanium dioxide(9.0%), toluene(2.7%*@), xylene(3-3%*@), yellow iron oxide(1.8%)
GAL WT: 9.50 WT PCT SOLIDS:61.30 VOL PCT SOLIDS:47.79
SOLVENT DENSITY: 7.03 VOC LE: 3.3 VOC AP: 3.0
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

334M27260™ acetone(5.6%), acrylic polymer-d(25.2%), aluminum hydrate (1.0%), amorphous silica-a(1.6%), amorphous silica - precipitated(6.5%), amorphous silica - silica base(1.5%), butyl acetate(2.6%), ethyl acetate(1.2%), ethylbenzene (0.1%*@), methyl amyl ketone(10.7%), polyester resin(4.5%), propylene glycol monomethyl ether acetate(6.3%), titanium dioxide(26.5%), toluene (1.6 %*@), yellow iron oxide(1.9%)
GAL WT: 11.25 WT PCT SOLIDS:70.23 VOL PCT SOLIDS:52.82
SOLVENT DENSITY: 7.09 VOC LE: 3.0 VOC AP: 2.7
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

334M27264™ acetone(6.0%), acrylic polymer-d(26.5%), amorphous silica-a (1.2%), amorphous silica - precipitated(6.9%), amorphous silica - silica base (1.6%), azo yellow pigment(3.0%), butyl acetate(3.9%), carbon black(0.1%), ethyl acetate(1.0%), ethylbenzene(0.2%*@), methyl amyl ketone(11.0%), polyester resin(4.0%), propylene glycol monomethyl ether acetate(8.4%), red iron oxide light (1.2%), titanium dioxide(19.2%), toluene(1.6%*@)
GAL WT: 10.45 WT PCT SOLIDS:65.64 VOL PCT SOLIDS:49.83
SOLVENT DENSITY: 7.15 VOC LE: 3.3 VOC AP: 3.0
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

334M67640™ acetone(7.2%), acrylic polymer-d(28.4%), amorphous silica-precipitated (11.3%), amorphous silica - silica base(4.5%), butyl acetate (11.4%), carbon black(1.2 %), ethyl acetate(4.8%), ethylbenzene(0.6%*@), methyl amyl ketone(12.1%), polyester resin(9.9%), toluene (1.6%*@), xylene (2-2%*@), 2-ethyl hexyl acetate(1.2%)
GAL WT: 8.83 WT PCT SOLIDS:57.82 VOL PCT SOLIDS:46.44
SOLVENT DENSITY: 7.04 VOC LE: 3.5 VOC AP: 3.1
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

610P™ acrylic polymer-d(50.1%), aromatic hydrocarbon-b(9-9 %), butyl acetate (7.3%), ethylbenzene(1.2%*@), ethylene glycol monobutyl ether acetate (4.6%*@), methyl ethyl ketone(13.9%*@), xylene(5-5%*@), 1,2,4-trimethyl benzene(1-6%*), tinuvin 900(1.2%) 37
GAL WT: 8.09 WT PCT SOLIDS:52.85 VOL PCT SOLIDS:46.64
SOLVENT DENSITY: 7.11 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

611P™ acrylic polymer-d(50.2%), butanedioic acid, dimethyl ester (1.1%), butyl acetate(4.3%), dimethyl glutarate (3.3%), ethylbenzene(0.3%*@), ethylene glycol monobutyl ether acetate(2.5%*@), methyl amyl ketone (24.2%), methyl ethyl ketone(2.9%*@), substituted benzotriazole(1.3%), toluene (4.8%*@), xylene(1.3%*@) 38
GAL WT: 8.13 WT PCT SOLIDS:53.04 VOL PCT SOLIDS:46.58
SOLVENT DENSITY: 7.15 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

613P™ acetone(14.3%), acrylic polymer-d(35.5%), amorphous silica – precipitated (16.3%), amorphous silica - silica base(4.0%), butyl acetate (3.0%), ethylbenzene(0.2 %*@), methyl amyl ketone(17.8%), toluene (3.8%*@)
GAL WT: 8.78 WT PCT SOLIDS:57.92 VOL PCT SOLIDS:45.82
SOLVENT DENSITY: 6.81 VOC LE: 3.0 VOC AP: 2.4
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

62-1632™ acetone(12.9%), acrylic polymer-c(23.1%), calcium carbonate (6.7%), cristobalite si02(4.3%), diatomaceous earth (1.7%), ethyl acetate (4.1%), ethylbenzene(0.6%*@), hydrous magnesium silicate(7.3%), kaolin (7.6%), methyl amyl ketone(6.1%), quartz-crystalline silica(0.2%), titanium dioxide (11.3%), xylene(2.4%*@), zinc oxide(2.4 %*), 2-ethyl hexyl acetate (6.0%) 39
GAL WT: 10.99 WT PCT SOLIDS:66.23 VOL PCT SOLIDS:46.34
SOLVENT DENSITY: 6.90 VOC LE: 2.9 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

62-711™ acetone(12.9%), acrylic polymer-c(23.1%), calcium carbonate (6.6%), carbon black(0.2%), cristobalite si02 (4.3%), diatomaceous earth (1.7%), ethyl acetate(4.1%), ethylbenzene(0.6%*@), hydrous magnesium silicate (7.2 %), kaolin(7.5%), methyl amyl ketone(6.1%), quartz-crystalline silica (0.2%), red iron oxide light(11.8%), xylene(2.4%*@), zinc oxide(2.4%*), 2-ethyl hexyl acetate(6.0%) 40
GAL WT: 11.07 WT PCT SOLIDS:66.30 VOL PCT SOLIDS:46.08
SOLVENT DENSITY: 6.90 VOC LE: 2.9 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

62-1640™ acetone(12.9%), acrylic polymer-c(23.0%), calcium carbonate (8.3%), carbon black(4.0%), cristobalite si02 (5.6%), diatomaceous earth (2.2%), ethyl acetate(4.2%), ethylbenzene(0.6%*@), hydrous magnesium silicate (9.2 %), kaolin(9.4%), methyl amyl ketone(6.1%), quartz-crystalline silica (0.3%), xylene(2.4%*@), zinc oxide(2.7 %*), 2-ethyl hexyl acetate (6.0%) 41
GAL WT: 10.68 WT PCT SOLIDS:66.21 VOL PCT SOLIDS:47.87
SOLVENT DENSITY: 6.90 VOC LE: 2.8 VOC AP: 2.2
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

62-1060™ acetone(12.9%), acrylic polymer-c(23.2%), calcium carbonate (6.6%), cristobalite si02(4.2%), diatomaceous earth (1.7%), ethyl acetate (4.1%), ethylbenzene(0.6%*@), hydrous magnesium silicate(7.2%), kaolin (7.5%), methyl amyl ketone(6.1%), quartz-crystalline silica(0.2%), titanium dioxide (11.2%), xylene(2.4%*@), zinc oxide(2.4 %*), 2-ethyl hexyl acetate (5.9%) 42
GAL WT: 10.97 WT PCT SOLIDS:66.11 VOL PCT SOLIDS:46.28
SOLVENT DENSITY: 6.90 VOC LE: 2.9 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

62-1072™ acetone(12.7%), acrylic polymer-c(23.3%), calcium carbonate (6.5%), carbon black(0.1%), cristobalite si02 (4.2%), diatomaceous earth (1.7%), ethyl acetate(4.0%), ethylbenzene(0.6%*@), hydrous magnesium silicate (7.1 %), kaolin(7.4%), methyl amyl ketone(6.1%), quartz-crystalline silica (0.2%), titanium dioxide(11.1%), xylene(2.5%*@), zinc oxide(2.3%*), 2-ethyl hexyl acetate (5.9%) 43
GAL WT: 10.94 WT PCT SOLIDS:65.94 VOL PCT SOLIDS:46.18
SOLVENT DENSITY: 6.91 VOC LE: 3.0 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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62-705™ acetone(12.9%), acrylic polymer-c(23.1%), calcium carbonate (6.6%), cristobalite si02(4.3%), diatomaceous earth (1.7%), ethyl acetate (4.1%), ethylbenzene(0.6%*@), hydrous magnesium silicate(7.2%), kaolin (7.5%), methyl amyl ketone(6.1%), quartz-crystalline silica(0.2%), xylene (2.4%*@), yellow iron oxide(11.8%), zinc oxide (2.5%*), 2-ethyl hexyl acetate (6.0%)
GAL WT: 11.00 WT PCT SOLIDS:66.30 VOL PCT SOLIDS:46.39
SOLVENT DENSITY: 6.90 VOC LE: 2.9 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

633-100™ acrylic polymer-b(24.4%), aromatic hydrocarbon-b(1.5 %), azo yellow pigment(6.2%), butyl acetate(12.6%), ethyl acetate(2.0%), ethylbenzene (0.1%*@), methyl amyl ketone(6.7%), organo clay(1.6%), polyester resin(14.3 %), propylene glycol monomethyl ether acetate(13.3%), titanium dioxide (7.4%), yellow iron oxide(3.9%), 1,2,4-trimethyl benzene(0-1%*), 2,4-pentanedione(1.6%)
GAL WT: 9.55 WT PCT SOLIDS:60.12 VOL PCT SOLIDS:49.11
SOLVENT DENSITY: 7.49 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

633-23662™ acrylic polymer-b(24.0%), aromatic hydrocarbon-b(1.5 %), barium sulfate(1.1%), butyl acetate(13.0%), ethyl acetate(2.3%), ethylbenzene (0.2%*@), isoindolinone pigment (6.3%), methyl amyl ketone(6.7%), monoazo pigment (5.3%), organo clay(1.7%), polyester resin(16.1%), propylene glycol monomethyl ether acetate(14.3%), titanium dioxide(2.7%), 1,2,4-trimethyl benzene (0-1%*), 2,4-pentanedione(1.6%)
GAL WT: 9.17 WT PCT SOLIDS:58.35 VOL PCT SOLIDS:49.07
SOLVENT DENSITY: 7.50 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

633-23663™ acrylic polymer-b(24.9%), aromatic hydrocarbon-b(1.4 %), azo yellow pigment(8.5%), butyl acetate(12.1%), ethyl acetate(2.2%), ethylbenzene (0.1%*@), methyl amyl ketone(7.0%), organo clay(1.6%), polyester resin(15.2 %), propylene glycol monomethyl ether acetate(14.4%), titanium dioxide (5.8%), yellow iron oxide(1.7%), 1,2,4-trimethyl benzene(0-1%*), 2,4-pentanedione(1.6%)
GAL WT: 9.30 WT PCT SOLIDS:59.06 VOL PCT SOLIDS:49.21
SOLVENT DENSITY: 7.50 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

633-23664™ acrylic polymer-b(28.7%), aromatic hydrocarbon-b(2.4 %), butyl acetate(20.1%), ethyl acetate(2.6%), ethylbenzene(0.2%*@), isoindolinone pigment(1.1%), methyl amyl ketone (6.8%), organo clay(2.7%), polyester resin (17.7%), propylene glycol monomethyl ether acetate(7.5 %), quinacridone pigment(4.4%), 1,2,4-trimethyl benzene(0-2%*), 2,4-pentanedione (1.6%)
GAL WT: 8.65 WT PCT SOLIDS:56.07 VOL PCT SOLIDS:48.50
SOLVENT DENSITY: 7.60 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

633-23665™ acrylic polymer-b(24.7%), amorphous silica-a(1.0%), aromatic hydrocarbon-b(1.6%), butyl acetate(13.8%), ethyl acetate(1.9%), ethylbenzene (0.2%*@), methyl amyl ketone(6.5%), organo clay(1.8%), phthalocyanine blue pigment(2.2%), polyester resin(13.0%), propylene glycol monomethyl ether acetate(10.0%), titanium dioxide(16.8%), 1,2,4-trimethyl benzene (0-1%*), 2,4-pentanedione(1.6%)
GAL WT: 9.90 WT PCT SOLIDS:61.63 VOL PCT SOLIDS:48.95
SOLVENT DENSITY: 7.44 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

633-23666™ acrylic polymer-b(22.2%), amorphous silica-a(1.0%), aromatic hydrocarbon-b (1.7%), azo yellow pigment(1.3 %), butyl acetate(15.0%), carbon black(0.1%), ethyl acetate(2.2%), ethylbenzene(0.2%*@), ethylene glycol monobutyl ether acetate (1.9%*@), methyl amyl ketone (8.4%), organo clay (1.9%), polyester resin(15.3%), propylene glycol monomethyl ether acetate (5.3%), titanium dioxide(17.0%), 1,2,4-trimethyl benzene(0-1%*), 2,4-pentanedione (1.6%)
GAL WT: 9.86 WT PCT SOLIDS:61.51 VOL PCT SOLIDS:48.34
SOLVENT DENSITY: 7.34 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

633-23667™ acrylic polymer-b(24.4%), aromatic hydrocarbon-b(1.7 %), butyl acetate(14.4%), ethyl acetate(2.4%), ethylbenzene(0.2%*@), methyl amyl ketone(6.6%), organo clay (1.9%), polyester resin(16.9%), primary amyl acetate (6.1%), propylene glycol monomethyl ether acetate(2.9 %), quinacridone pigment(4.0%), titanium dioxide(8.6 %), 1,2,4-trimethyl benzene (0-1%*), 2-methyl butyl acetate(3.3%), 2,4-pentanedione(1.7%)
GAL WT: 9.18 WT PCT SOLIDS:58.50 VOL PCT SOLIDS:47.94
SOLVENT DENSITY: 7.32 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

633-67632™ acrylic polymer-b(18.6%), aluminum hydrate(1.1%), amorphous silica-a(1.7%), aromatic hydrocarbon-b(1.2%), butyl acetate (10.1%), ethyl acetate(8.1%), ethylbenzene(0.1%*@), methyl amyl ketone (5.3%), organo clay(1.4 %), polyester resin(13.4%), propylene glycol monomethyl ether acetate(5.6%), titanium dioxide(27.6%), 2ethyl hexyl acetate (1.6%), 2,4-pentanedione(1.6%)
GAL WT: 10.84 WT PCT SOLIDS:64.92 VOL PCT SOLIDS:48.66
SOLVENT DENSITY: 7.41 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

633-67633™ acrylic polymer-b(21.1%), amorphous silica-a(1.3%), aromatic hydrocarbon-b(1.9%), butyl acetate(16.9%), carbon black(0.2%), ethyl acetate (3.0%), ethylbenzene (0.2%*@), ethylene glycol monobutyl ether acetate (1.5%*@), methyl amyl ketone(5.1%), organo clay(2.1%), polyester resin (14.5%), propylene glycol monomethyl ether acetate(4.6%), titanium dioxide (21.6%), 1,2,4-trimethyl benzene(0-1%*), 2,4-pentanedione(1.6%)
GAL WT: 10.25 WT PCT SOLIDS:62.98 VOL PCT SOLIDS:48.64
SOLVENT DENSITY: 7.38 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

633-67635™ acrylic polymer-b(20.2%), amorphous silica-a(1.5%), aromatic hydrocarbon-b(1.9%), butyl acetate(16.2%), ethyl acetate(1.9%), ethylbenzene (0.1%*@), ethylene glycol monobutyl ether acetate(1.6%*@), methyl amyl ketone(4.8%), organo clay(2.2%), polyester resin(12.7 %), propylene glycol monomethyl ether acetate(5.5%), titanium dioxide(25.1%), 1,2,4-trimethyl benzene(0-1 %*), 2,4-pentanedione(1.6%)
GAL WT: 10.67 WT PCT SOLIDS:64.58 VOL PCT SOLIDS:48.96
SOLVENT DENSITY: 7.40 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

633-67637™ acrylic polymer-b(20.2%), amorphous silica-a(1.6%), aromatic hydrocarbon-b (1.9%), butyl acetate(16.4%), ethyl acetate(2.8%), ethylbenzene (0.1%*@), ethylene glycol monobutyl ether acetate(1.1%*@), methyl amyl ketone(4.7%), organo clay(2.2%), polyester resin(12.9 %), propylene glycol monomethyl ether acetate(5.2%), titanium dioxide(25.3%), 1,2,4-trimethyl benzene(0-1 %*), 2,4-pentanedione(1.6%)

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DuPont Performance Coatings
Material Safety Data Sheet
Imron®5000 Polyurethane Enamel

SECTION 1 - Product and Company Identification

Manufacturer: E.I. duPont de Nemours & Co.
DuPont Performance Coatings
Wilmington, DE, 19898

Telephone:
Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **Imron®5000 Polyurethane Enamel**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ACETIC ACID ESTER	90438-79-2	0.8@68.0°F	A None O None
ACETONE	67-64-1	180.0@68.0°F	A 750.0ppm 15 min STEL A 500.0ppm O 1000.0ppm D 500.0ppm 8 & 12 hour TWA
ACRYLIC POLYMER-A	Not Avail	None	A None O None
ACRYLIC POLYMER-B	25067-83-8	None	A None O None
ACRYLIC POLYMER-C	26061-99-4	None	A None O None
ACRYLIC POLYMER-D	42767-92-0	None	A None O None
ACRYLIC POLYMER-E	70942-12-0	None	A None O None
ACRYLIC POLYMER-F	80010-53-3	None	A None O None
ACRYLIC POLYMER-G	104032-39-5	None	A None O None
ACRYLIC POLYMER-H	170475-04-4	None	A None O None
ALIPHATIC POLY ISOCYANATE RESIN	28182-81-2	None	S 1.0mg/m^3 15 min STEL S 0.5mg/m^3 A None O None
ALUMINUM	7429-90-5	10.0@77.0°F	O 15.0mg/m^3 Total Dust A 5.0mg/m^3 Dust O 5.0mg/m^3 Respirable Dust A 10.0mg/m^3 Particulate
ALUMINUM HYDRATE	21645-51-2	None	A None O None
ALUMINUM OXIDE	1344-28-1	None	A 10.0mg/m^3 O 15.0mg/m^3 Total Dust O 5.0mg/m^3 Respirable Dust
AMORPHOUS SILICA	7631-86-9	None	D 3.0mg/m^3 8 hr PEL O 20.0mppcf A 10.0mg/m^3 Total Dust
AMORPHOUS SILICA - PRECIPITATED	112926-00-8	None	A 10.0mg/m^3 D 3.0mg/m^3 Respirable Dust O None
ANTHRAQUINONE PIGMENT	Not Avail	None	A 10.0mg/m^3 O None
ANTIMONY PENT OXIDE	1314-60-9	None	A 0.5mg/m^3 Sb O 0.5mg/m^3 Sb
ANTIMONY TRIOXIDE	1309-64-4	None	D 0.2mg/m^3 Sb A 0.5mg/m^3 Sb O 0.5mg/m^3 Sb

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389S™ dibutyl tin dilaurate, 2,4-pentanedione
GAL WT: 8.14 WT PCT SOLIDS: 1.00 VOL PCT SOLIDS: 0.94
SOLVENT DENSITY: 8.12 VOC LE: 8.1 VOC AP: 8.1
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8685S™ ethyl acetate, ethylene glycol monobutyl ether acetate(40%*@), methyl ethyl ketone(10%*@)
GAL WT: 7.55 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.50 VOC LE: 7.5 VOC AP: 7.5
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8695S™ ethylene glycol monobutyl ether acetate(74%*@), methyl amyl ketone
GAL WT: 7.54 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.54 VOC LE: 7.5 VOC AP: 7.5
FLASH POINT: 100°F - 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8920S™ bis(1,2,2,6,6-pentamethyl-4-piperdinyl) sebacate, ethyl acetate, ethylbenzene (0.2%*@), polyester resin, polyol
GAL WT: 8.57 WT PCT SOLIDS:93.67 VOL PCT SOLIDS:92.70
SOLVENT DENSITY: 7.44 VOC LE: 0.5 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: YES

8930S™ acetic acid ester, heptane, methyl ethyl ketone(40%*@)
GAL WT: 6.65 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.65 VOC LE: 6.7 VOC AP: 6.7
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8885S™ acetone, ethyl acetate, 2-ethyl hexyl acetate
GAL WT: 7.32 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.32 VOC LE: 7.4 VOC AP: 6.6
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8909S™ aliphatic poly isocyanate resin, methyl ethyl ketone(5 %*@), 1,6-hexamethylene diisocyanate(0.2%*@)
GAL WT: 9.44 WT PCT SOLIDS:95.00 VOL PCT SOLIDS:92.91
SOLVENT DENSITY: 6.66 VOC LE: 0.5 VOC AP: 0.5
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8928S™ acrylic polymer-e, barium sulfate, calcium carbonate, ethyl acetate, ethylbenzene (0.4%*@), ethylene glycol monobutyl ether acetate (10%*@), kaolin, magnesite, magnesium silicate, methyl ethyl ketone(3%*@), polyester resin, xylene(1%*@)
GAL WT: 13.89 WT PCT SOLIDS:71.90 VOL PCT SOLIDS:47.91
SOLVENT DENSITY: 7.45 VOC LE: 3.9 VOC AP: 3.9
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8989S™ dibutyl tin dilaurate, 2,4-pentanedione
GAL WT: 8.16 WT PCT SOLIDS: 5.00 VOL PCT SOLIDS: 4.68
SOLVENT DENSITY: 8.12 VOC LE: 7.8 VOC AP: 7.8
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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RK-P-19488™ acetone, acrylic polymer-g, amorphous silica - precipitated, butyl acetate, methyl amyl ketone, toluene(2-2 %*@)
GAL WT: 8.75 WT PCT SOLIDS:56.99 VOL PCT SOLIDS:44.58
SOLVENT DENSITY: 6.78 VOC LE: 3.0 VOC AP: 2.4
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

Q1508X™ acrylic polymer-f, ethyl acetate, ethylbenzene(0.3%*@), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, titanium dioxide, toluene(3%*@), xylene(1%*@)
GAL WT: 8.59 WT PCT SOLIDS:42.94 VOL PCT SOLIDS:36.33
SOLVENT DENSITY: 7.75 VOC LE: 4.9 VOC AP: 4.9
FLASH POINT: 20°F to below 73°F H: 1 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

Footnotes:
TSCA: in compliance = In compliance with TSCA Inventory requirements for commercial purposes.
ACGIH = American Conference of Government Industrial Hygienists.
IARC = International agency for Research on Cancer.
NTP = National Toxicology Program.
OSHA = Occupational Safety and Health Administration.
PNOR = Particles Not Otherwise Regulated.
PNOC = Particles Not Otherwise Classified.
STEL = Short Term Exposure Limit.
TWA = Time Weighted Average.
TM = Is a Trademark of E.I. DuPont de Nemours & Co.
* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.
@ = Clean Air Act Hazardous Air Pollutant.
# = EPCRA Section 302 - Extremely Hazardous Substance.

NOTICE:
The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales
Prepared by: M. C. Gangi

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DuPont Performance Coatings
Material Safety Data Sheet
Isocyanate Activators, Hardeners, and Additives

SECTION 1 - Product and Company Identification

Manufacturer: E.I. du Pont de Nemours & Co.
Du Pont Performance Coatings
Wilmington, DE, 19898

Telephone:
Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ALIPHATIC POLYISOCYANATE RESIN	28182-81-2	None	S 1.0mg/m^3 15 min STEL S 0.5mg/m^3 A None O None
AROMATIC HYDROCARBON-A	64742-94-5	10.0	D 100.0ppm A None O None
AROMATIC HYDROCARBON-B	64742-95-6	10.0@25.0°C	D 50.0ppm A None O None
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERDINYL) SEBACATE	41556-26-7	None	A None O None
BIS(2,2,6,6, TETRAMETHYL-4 PIPERIDYL) SEBACATE	52829-07-9	None	S 1.0mg/m^3 A None O None
BUTYL ACETATE	123-86-4	10.0	A 200.0ppm 15 min STEL A 150.0ppm O 150.0ppm
DIBUTYL TIN DILAURATE	77-58-7	0.2@160.0°C	O 0.1mg/m^3 Sn A 0.2mg/m^3 15 min STEL Skin Sn A 0.1mg/m^3 Skin Sn
DIISOBUTYL KETONE	108-83-8	1.7	A 25.0ppm O 50.0ppm
ETHANOL, 2-(2-BUTOXYETHOXY)-	112-34-5	0.0	D 5.0ppm A None O None
ETHYL ACETATE	141-78-6	93.2@25.0°C	A 400.0ppm O 400.0ppm
ETHYL 3-ETHOXY PROPIONATE	763-69-9	1.5@25.0°C	A None O None
ETHYLBENZENE	100-41-4	7.0	A 125.0ppm 15 min STEL A 100.0ppm O 100.0ppm D 25.0ppm 8 & 12 hour TWA
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	112-07-2	0.3	A 20.0ppm D 10.0ppm Skin O None
HEPTANE	142-82-5	45.0@66.0°F	A 500.0ppm 15 min STEL A 400.0ppm O 500.0ppm
HEXYL ACETATE ISOMERS	88230-35-7	1.4	A 50.0ppm O None
ISOBUTYL ALCOHOL	78-83-1	10.0@22.0°C	A 50.0ppm O 100.0ppm
ISOPHORONE DIISOCYANATE	4098-71-9	None	A 5.0ppb Skin O None
ISOPHORONE DIISOCYANATE HOMOPOLYMER	53880-05-0	None	A None O None
ISOPROPYL ALCOHOL	67-63-0	33.0	A 500.0ppm 15 min STEL A 400.0ppm O 400.0ppm D 400.0ppm 8 & 12 hour TWA

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Clothing:
Neoprene gloves and coveralls are recommended.
Eye Protection:
Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

SECTION 9 - Physical and Chemical Properties

Evaporation Rate	Slower than Ether
Solubility in water	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	No Data Available
Approx. freezing range (°C)	-133 --107 ° (C)
Gallon weight (lbs/gal)	6.87 - 9.43
Specific gravity	0.82 - 1.13
Percent volatile by volume	6.40 - 91.33
Percent volatile by weight	4.99 - 88.89
Percent solids by volume	8.67 - 93.60
Percent solids by weight	11.11 - 95.01

SECTION 10 - Stability and Reactivity

Stability: Stable
Incompatibility (materials to avoid): water, alcohols, amines
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 100°F) and combustibles (flashpoint between 100-200°F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.
Sensitivity to mechanical impact: Not Applicable

SECTION 11 - Additional Information

PRODUCT CODE **INGREDIENTS (Product Specific)**

77S™ aromatic hydrocarbon-b, butyl acetate, dibutyl tin dilaurate, isophorone diisocyanate(1%*#), isophorone diisocyanate homopolymer, toluene (65%*@)
GAL WT: 7.75 WT PCT SOLIDS:25.30 VOL PCT SOLIDS:20.18
SOLVENT DENSITY: 7.25 VOC LE: 5.8 VOC AP: 5.8
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

192S™ aliphatic poly isocyanate resin, aromatic hydrocarbon-b, butyl acetate, ethyl acetate, 1,2,4-trimethyl benzene(1-2%*)
GAL WT: 8.11 WT PCT SOLIDS:32.69 VOL PCT SOLIDS:27.14
SOLVENT DENSITY: 7.49 VOC LE: 5.5 VOC AP: 5.5
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

193S™ aliphatic poly isocyanate resin, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate(4%*@), 1,6-hexamethylene diisocyanate (0.2%*@)
GAL WT: 9.02 WT PCT SOLIDS:74.99 VOL PCT SOLIDS:70.02
SOLVENT DENSITY: 7.50 VOC LE: 2.3 VOC AP: 2.3
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

194S™ aliphatic poly isocyanate resin, butyl acetate, ethyl acetate, 1,6-hexamethylene diisocyanate(0.2%*@), 2 ethyl hexyl acetate
GAL WT: 8.98 WT PCT SOLIDS:75.00 VOL PCT SOLIDS:69.76
SOLVENT DENSITY: 7.42 VOC LE: 2.2 VOC AP: 2.2
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

195S™ aliphatic poly isocyanate resin, aromatic hydrocarbon-b, butyl acetate, ethyl acetate, 1,2,4-trimethyl benzene(0-2%*), 1,6-hexamethylene diisocyanate (0.1%*@)
GAL WT: 8.66 WT PCT SOLIDS:60.74 VOL PCT SOLIDS:54.52
SOLVENT DENSITY: 7.48 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

236S™ isobutyl alcohol, isopropyl alcohol, methyl amyl ketone, n-beta-(aminoethyl)-gamma-aminopropyltrimethoxysilane, propylene glycol methyl ether, salicylic acid, siloxanes and silane esters, vm&p naphtha, 2,4,6-tri((dimethylamino)methyl) phenol
GAL WT: 7.13 WT PCT SOLIDS:21.64 VOL PCT SOLIDS:17.55
SOLVENT DENSITY: 6.78 VOC LE: 5.6 VOC AP: 5.6
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 2 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

255S™ isobutyl alcohol, methyl isobutyl ketone(27%*@), n-beta-(aminoethyl)-gamma-aminopropyltrimethoxysilane, salicylic acid, siloxanes and silane esters, 2,4,6tri((dimethylamino)methyl) phenol
GAL WT: 6.87 WT PCT SOLIDS:11.11 VOL PCT SOLIDS: 8.67
SOLVENT DENSITY: 6.69 VOC LE: 6.1 VOC AP: 6.1
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 2 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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582S™ aliphatic poly isocyanate resin, aromatic hydrocarbon-b, butyl acetate, ethyl acetate
GAL WT: 8.23 WT PCT SOLIDS:38.11 VOL PCT SOLIDS:32.11
SOLVENT DENSITY: 7.50 VOC LE: 5.1 VOC AP: 5.1
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

785S™ aliphatic poly isocyanate resin, methyl ethyl ketone(10 %*@), 1,6-hexamethylene diisocyanate(0.2%*@)
GAL WT: 9.24 WT PCT SOLIDS:90.00 VOL PCT SOLIDS:86.13
SOLVENT DENSITY: 6.66 VOC LE: 0.9 VOC AP: 0.9
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

792S™ aliphatic poly isocyanate resin, aromatic hydrocarbon-b, bis(2,2,6,6, tetramethyl-4 piperidyl) sebacate, butyl acetate, ethyl acetate, substituted benzotriazole, 1,2,4-trimethyl benzene(1-2%*)
GAL WT: 8.12 WT PCT SOLIDS:33.99 VOL PCT SOLIDS:28.41
SOLVENT DENSITY: 7.50 VOC LE: 5.4 VOC AP: 5.4
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

793S™ aliphatic poly isocyanate resin, aromatic hydrocarbon-b, bis(2,2,6,6, tetramethyl-4 piperidyl) sebacate, butyl acetate, ethanol, 2-(2-butoxyethoxy)-(6%*@), ethyl acetate, substituted benzotriazole, toluene(4%*@), trixylenyl phosphate, 1,2,4-trimethyl benzene(0-2%*), 1,6-hexamethylene diisocyanate (0.1%*@)
GAL WT: 9.14 WT PCT SOLIDS:78.77 VOL PCT SOLIDS:74.12
SOLVENT DENSITY: 7.49 VOC LE: 1.9 VOC AP: 1.9
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

795S™ aliphatic poly isocyanate resin, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate(6%*@), 1,6-hexamethylene diisocyanate (0.1%*@)
GAL WT: 8.82 WT PCT SOLIDS:66.78 VOL PCT SOLIDS:61.06
SOLVENT DENSITY: 7.50 VOC LE: 2.9 VOC AP: 2.9
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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MATERIAL SAFETY DATA SHEET
PAINTS & COATINGS

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Section 1 – Product Information

Date of Preparation: February 16, 2001

Manufacturer: Clearstar Coatings Corp.
811 Palm Blvd.
Isle of Palms, SC 29451
USA
1-843-886-0094
1-843-886-3701 (FAX)

Emergency Telephone: For transportation emergencies call –
1-800-424-9300 Domestic
1-703-527-3887 International

Product Code: R2004

Product Description: Alcohol Reducer Medium Blend

Section II – Hazardous Ingredients

Hazardous Ingredient	Sara 313 % By Weight	CAS No.	Exposure limits PPM ACGIH TLV	OSHA PEL	OTHER LIMIT
Ethyl Alcohol		64-17-5	1000	1000	
Methyl Isobutyl Ketone		108-10-1	50	50	75 STEL
Ethylene Glycol Monobutyl Ether*	3.7%	111-76-2	25	25	39.4 Ceiling
Isopropyl Alcohol		67-63-0	400	400	600 STEL
n-Butyl Alcohol*	7%	71-36-3	50 Ceiling	100	8000 IDLH
Toluene*,**	7%	108-88-3	50	200	
Benzene*,**	trace	71-43-2	3	5	
Methanol*	1%	67-56-1	200	200	25000 IDLH

* SARA 313 LISTED
** PROP 65 LISTED

Section III – Physical Data

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Boiling Point: 148 – 340 ° F
Weight per Gallon (density): 6.8 (.81)
Percent Volatile by Volume: 100
Odor and Appearance: Organic Odor, clear liquid
Odor Threshold, pH, Coefficient of water/oil distribution: Not applicable.

Section IV – Fire or Explosion Hazard

Flash Point (TCC): 45°F
Lower Explosive Limit: 1.1
Upper Explosive Limit: 36
NFPA flammability: 1B
Extinguishing Media: Foam, carbon dioxide, dry chemicals. Water jet or stream is unsuitable.
Unusual Fire & Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may burst (due to build up of steam pressure) when exposed to extreme heat. Burning produces smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Seek medical attention. Vapors from this product may travel or move by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from handling point. Vapors may settle in low or confined areas, or travel a long distance to an ignition source and flash back explosively.
Special Fire Fighting Procedures: To prevent pressure build up, water should be used to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

Section V – Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur.
Incompatibility: Alkalis, acids and oxidizers, calcium hypochloride, sodium hypochloride, halogen compounds, amines.
Hazardous Decomposition Products: May liberate carbon monoxide, carbon dioxide, aldehydes.
Conditions to avoid: Heat, open flames, sparks.

Section VI – Toxicological Properties

Threshold Limit Value: None established.

Cancer Risks: Benzene is known to NTP, IARC, ACGIH or OSHA to be Carcinogenic.

Exposure effects:
Inhalation: (Acute) Nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation.

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MATERIAL SAFETY DATA SHEET

Plastic Mixed Colors

Date of Preparation: 1/1/2005

Section 1 - Product Information

Manufacturer: Quill Hair & Ferrule Ltd
#1 Greengate Park Rd
Columbia, SC
USA

Information: 803-788-4499 (USA 8:00am – 5:00pm Eastern Time) Product Use: color coat

Item Number: Mixed Colors
Contains the following Colorants: Various

Emergency Overview

Signs of Overexposure: Nausea, cough, dizziness, weakness, headache, chest pain, lack of coordination, shortness of breath, dermatitis, redness and/or pain in eyes.
Emergency First Aid: Move to fresh air, remove contaminated clothing, wash effected skin with soap and water, do not use solvents or thinners; if product gets into eyes, remove contact lenses, flush with water for 15 minutes.
Handling: When handling wear an organic vapor cartridge respirator (NIOSH / OSHA), solvent resistant gloves and safety eye protection designed to guard against liquid splashes. Use approved bonding and grounding procedures when transferring to another container. Close all containers tightly after use. Do not eat, drink or smoke in work areas.
Clean-up: Eliminate sources of ignition. Dike to reduce extent of spill. Remove with inert absorbent (vermiculite, clay, Oil-Dry®, Kitty Litter, etc.) using non-sparking tools. Transfer to a grounded metal container, seal container. Dispose of as hazardous waste.
Material Appearance: Colored
Material Physical Appearance: Liquid
Other Precautions: Vapors are heavier than air and may travel along floors. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure.
Fire Fighting: Flammable liquid, refer to Guide 127 of the North American Emergency Guide Book.
NFPA Flammability: IB

These products are considered hazardous under the Federal OSHA Hazard Communication Standard

Section 2 - Hazardous Ingredients

Hazardous Ingredient **All contain the following:**	SARA 313 % by Weight	CAS No.		ACGIH TLV	OSHA PEL	Other			
Methyl Isobutyl Ketone		108-10-1		50ppm	50ppm	75 STEL			
Benzene *(SARA 313)(P65)*	Trace	71-36-3		3ppm	5ppm				
Ethylene Glycol Monobutyl Ether *(SARA313)*	3.7%	111-76-2		25ppm	25ppm	39.4 Ceiling			
Toluene*(SARA313)(P65)*	1.9-9.0%	108-88-3		50ppm	200ppm				
Isopropyl Alcohol		67-63-0		400ppm	400ppm	600 STEL			
n-Butyl Alcohol(SARA313)	7%	71-36-3		50 Ceiling	100ppm	8000 IDLH			
Ethyl Alcohol		64-17-5		1000ppm	1000ppm				
Methanol	1%.	67-56-1		200ppm	200ppm	25000IDLH			
Methyl Amyl Ketone **The Following Colorants Contain**		110-43-0		50ppm	100ppm				
14,15,16 Butyl Acetate		123-86-4		150ppm	150ppm				
14,15,16 Ethylbenzene *(SARA 313)(P65)*	.2-1.7%	100-41-4		100ppm	100ppm				
14,15,16 Xylene *(SARA313)(P65)*	2-9%	1330-20-7		150ppm	100ppm	15 STEL			
14 Quinophthalone Yellow Pigment		30125-47-4		10.0mg/m	None				
15 Dioxazine Carbozole Pigment		4378-61-4		10.0mg/m3	15.0mg/m3	Respirable			
16 Barium Sulfate		7727-43-7		10.0mg/m3	15.0mg/m3	Respirable			
16 Pigment Red 202		3089-17-6		None	15.0mg/rr	Respirable			

Taken In Case Material Is Released Or Spilled: Remove all sources of ignition. Avoid breathing tilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking ecessary report to applicable government agency.

Section 7 – Handling and Storage

ecautions To Be Taken In Handling And Storing: Use approved bonding and grounding procedures when transferring liquid to another container. Do not transfer to unlabeled containers. No smoking. Store plastic containers of flammable liquids inside closed, approved boxes or safety cabinets. Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.
Hygienic Practices: Do not eat, drink or smoke in work areas. Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.
Other Precautions: Vapors are heavier than air and may travel along floors. Use explosion proof equipment in areas where there is spraying or open containers. Do not take internally. Observe label precautions. Keep closures tight and container upright to prevent leakage. Avoid breathing sanding dust. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by regulations. Material has an offensive odor. Prolonged exposure may reduce the user's sensitivity to the odor, thus reducing the effectiveness of odor as a warning against exposure.

Section 8 – Exposure Controls

Primary Routes of Entry: Inhalation, skin contact, ingestion, eyes.
Personal Protective Equipment: In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use antistatic paint suit, goggles, gloves, and air supplied respiratory equipment. All personal protective equipment should meet NIOSH or OSHA requirements.
Respiratory Protection: When personnel, whether spraying or not, are inside a spray booth, ventilation is unlikely to be sufficient to control particulates and chemical vapor in all cases. In such cases air supplied respiratory equipment is recommended until particulate and vapor concentration has fallen below exposure limits. If monitoring demonstrates
levels below TLV or PEL, wear a NIOSH/MSHA approved respirator device. See safety equipment supplier for evaluation and recommendation.
Ventilation: Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.
Protective Gloves: Required for prolonged or repeated contact. Use solvent resistant gloves. Barrier creams are not substitutes for full physical protection. Refer to safety equipment supplier for effective glove recommendations.
Eye Protection: Use safety goggles or face shield designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

Section 9 – Physical and Chemical Properties

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Vapor Pressure: See Technical Table
Boiling Range: 148-340F
Weight per Gallon (Specific Gravity): 7.6-8.6
Percent Volatile by Volume: 66-82%
Physical state: Liquid
Odor and Appearance: organic odor, colored liquid
Odor Threshold (ppm): 0.8600
Volatile Organic Compounds: 5.3 lb/gal. maximum
Freezing point, Coefficient of water/oil distribution ,pH: Not applicable or not available

Section 10 – Stability and Reactivity

Stability: Stable
Incompatibility (materials to avoid): acids, oxidizers, hydrogen fluoride, hydrogen peroxide .
Hazardous Polymerization: Will not occur.

MATERIAL SAFETY DATA SHEET
PAINTS & COATINGS

Section 1 – Product Information

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Date of Preparation: February 16, 2001

Manufacturer: Clearstar Coatings Corp.
811 Palm Blvd.
Isle of Palms, SC 29451
USA
1-843-886-0094
1-843-886-3701 **(FAX)**

Emergency Telephone: For transportation emergencies call –
1-800-424-9300 Domestic
1-703-527-3887 International

Product Code: **SBPCBLW** / BLW

Product Description: **Solvent Borne Plastic Coating Backlight White**

Section II – Hazardous Ingredients

Hazardous Ingredient	Sara 313 % By Weight	CAS No.	Exposure limits PPM ACGIH TLV	OSHA PEL	OTHER LIMIT
Ethyl Alcohol		64-17-5	1000	1000	
Methyl Isobutyl Ketone ?		108-10-1	50	50	75 STEL
Ethylene Glycol Monobutyl Ether*	3.7%	111-76-2	25	25	39.4 Ceiling
Isopropyl Alcohol		67-63-0	400	400	600 STEL
n-Butyl Alcohol*	7%	71-36-3	50 Ceiling	100	8000 IDLH
Toluene*,**	7%	108-88-3	50	200	
Benzene*,**	trace	71-43-2	3	5	
Methanol*	1%	67-56-1	200	200	25000 IDLH
Titanium Dioxide		13463-67-7	10 mg/m3	10 mg/m3	

* SARA 313 LISTED
** PROP 65 LISTED

Section III – Physical Data

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Boiling Point: 148 – 340 ° F
Weight per Gallon (density): 9.1 (1.09)
Percent Volatile by Volume: 65
Odor and Appearance: Organic Odor, white liquid
Odor Threshold, pH, Coefficient of water/oil distribution: Not applicable.
VOC: 4.5 lb/gal

Section IV – Fire or Explosion Hazard

Flash Point (TCC): 45°F
Lower Explosive Limit: 1.1
Upper Explosive Limit: 36
NFPA flammability: 1B
Extinguishing Media: Foam, carbon dioxide, dry chemicals. Water jet or stream is unsuitable.
Unusual Fire & Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may burst (due to build up of steam pressure) when exposed to extreme heat. Burning produces smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Seek medical attention. Vapors from this product may travel or move by air currents and be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharge, or other ignition sources at locations distant from handling point. Vapors may settle in low or confined areas, or travel a long distance to an ignition source and flash back explosively.
Special Fire Fighting Procedures: To prevent pressure build up, water should be used to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

Section V – Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur.
Incompatibility: Alkalis, acids and oxidizers, calcium hypochloride, sodium hypochloride, halogen compounds, amines.
Hazardous Decomposition Products: May liberate carbon monoxide, carbon dioxide, aldehydes.
Conditions to avoid: Heat, open flames, sparks.

Section VI – Toxicological Properties

Threshold Limit Value: None established.

Cancer Risks: Benzene is known to NTP, IARC, ACGIH or OSHA to be Carcinogenic.

Exposure effects:
Inhalation: (Acute) Nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache,

50 55 51 52

****** SECTION 1 - Product and Company Identification ******

Manufacturer: E.I. DuPont de Nemours & Co.
Dupont Performance Coatings
Wilmington, DE, 19898

Telephone: Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

PRODUCT NAME: CLEAR

PRODUCT CODE: CLEAR

Chemical Family: No Information Available

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

CAS #	Ingredient	Concentration/ Range (%)	Exposure Limits**
123-86-4	BUTYL ACETATE	5- 15	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
110-43-0	METHYL AMYL KETONE	5- 15	A 50.0 ppm O 100.0 ppm
141-78-6	ETHYL ACETATE	5- 15	A 400.0 ppm O 400.0 ppm
112-07-2	ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	1	A 20.0 ppm D 10.0 ppm Skin O None
108-88-3	TOLUENE	2- 2	A 50.0 ppm Skin O 300.0 ppm CEIL O 500.0 ppm 10 min TWA O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA
100-41-4	ETHYLBENZENE	0.3- 0.7	A 125.0 ppm

have other MSDS on 40b & 41b

Per Robin Smith This MSDS is for products ~~40b 41b~~, 55b, 60B, 70B, 45b ~~75B~~, ~~76B~~, ~~76B~~ & ~~77B~~ - no longer in use

****** SECTION 2 - Composition, Information on Ingredients ******
Cont'd

				15 min STEL
			A	100.0 ppm
			O	100.0 ppm
			D	25.0 ppm
				8 & 12 hour TWA
1330-20-7	XYLENE	2- 2	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
68911-87-5	ORGANOCLAY	1- 4	A	None
			O	None
104032-39-5	ACRYLIC POLYMER	27- 37	A	None
			O	None
71010-58-7	POLYESTER RESIN	16- 26	A	None
			O	None
7631-86-9	AMORPHOUS SILICA	5- 15	A	10.0 mg/m3
				Total Dust
			O	20.0 mppcf
			D	3.0 mg/m3
				8 hr PEL
67-64-1	ACETONE	5- 15	A	750.0 ppm
				15 min STEL
			A	500.0 ppm
			O	1000.0 ppm
			D	500.0 ppm
				8 & 12 hour TWA
63231-67-4	AMORPHOUS SILICA - SILIC-A BASE	1- 4	A	10.0 mg/m3
			D	1.0 mg/m3
				Respirable Dust
			O	None

OSHA HAZARDOUS? Yes

** A = ACGIH, O = OSHA, D = Dupont, S = Supplier (For additional definition of terms, see Section 16). Limits are 8-hour TWA unless otherwise specified.

****** SECTION 7 - Handling and Storage ******
Cont'd

particulate filters or appropriate ventilation , and gloves.

****** SECTION 8 - Exposure Controls or Personal Protection ******

Engineering controls and work practices:
Ventilation:
Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Personal Protective Equipment:
Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.
Protective clothing:
Neoprene gloves and coveralls are recommended.
Eye protection:
Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

****** SECTION 9 - Physical and Chemical Properties ******

Evaporation Rate	Slower than Ether
Vapor Pressure of principal solvent	3.40 hPa @ 20 Deg C
Solubility of solvent in water	NIL
Vapor density of principal solvent (Air = 1)	3.90
Approx. Boiling range	56 - 152 DEG (C)
Approx. Freezing range	-84 - -35 DEG (C)
Gallon weight (lbs/gal)	8.65
Specific gravity	1.04
Percent volatile by volume	52.03
Percent volatile by weight	42.44
Percent solids by volume	47.97
Percent solids by weight	57.57
Physical state	Liquid
pH (waterborne systems only)	Not Applicable
VOC* less exempt (lbs/gal)	3.4
VOC* as packaged (lbs/gal)	3.0

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

****** SECTION 10 - Stability and Reactivity ******

Stability:
Stable
Incompatibility (materials to avoid):
None reasonably foreseeable

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MATERIAL SAFETY DATA SHEET
ACCELERATED REDUCER

9/10/06
Per Robin Smith
this is MSDS
for CS2010

Section 1 – Product Information

Date of Preparation: May 12, 2004

Manufacturer: Clearstar Coatings Corp.
PO Box 390
Isle of Palms, SC 29451
USA
1-843-886-0094
1-843-886-3701 **(FAX)**

Emergency Telephone: For transportation emergencies call –
1-800-424-9300 Domestic
1-703-527-3887 International

Product Code: **R2007, R2008, R2010**

Section II – Hazardous Ingredients

Hazardous Ingredient	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD50 Oral	LD50 Derm.	LC50 Inhal.	LEL @ 25 C
Methyl Ethyl Ketone*	78-93-3	77.5	200 ppm	200 ppm	2737	13000	9610	1.1
Propylene Glycol Methyl Ether Acetate	108-65-8	3.8	n.av.	n. av.	8532	5000	n.av.	1.5
Xylene* (*Sara 313 listed)	1330-207		100ppm	100ppm	4300	14100	5000	1.5

Section III – Physical Data

Evaporation Rate: Slower than ether
Vapor Density: Heavier than air
Boiling Range: 312 - 367° F
Weight per Gallon (density): 7.7 (.924)
Percent Volatile by Volume: 100
Odor and Appearance: Organic Odor, colored liquid
Odor Threshold, pH, Coefficient of water/oil distribution: Not applicable.

Section IV – Fire or Explosion Hazard

Flash Point (SFCC): 21°F
Lower Explosive Limit: 1.0
NFPA flammability: IB
Extinguishing Media: Foam, carbon dioxide, dry chemicals. Water jet or stream is unsuitable.
Unusual Fire & Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may burst (due to build up of steam pressure) when exposed to extreme heat. Burning produces smoke containing hazardous products of combustion. Symptoms may not be immediately apparent. Seek medical attention.
Special Fire Fighting Procedures: To prevent pressure build up, water should be used to cool containers exposed to fire. Firefighters should wear self-contained breathing apparatus.

Section V – Reactivity Data

Stability: Stable
Incompatibility: Alkalis, acids and oxidizers..
Hazardous Decomposition Products: Oxides of carbon.
Hazardous Polymerization: Will not occur.
Conditions to avoid: Heat, open flames, sparks.

Section VI – Toxicological Properties

Threshold Limit Value: None established.

Cancer Risks: No ingredients in these products are known to NTP, IARC, ACGIH or OSHA to be Carcinogenic.

Exposure effects:
Inhalation: (Acute) Nasal & respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation.
(Chronic) Delayed lung damage, kidney, liver, and cardiac disorders.
Skin Contact: (Acute) Extraction of natural oils with resulting skin irritation, dryness and discomfort.
(Chronic) Sensitization to skin may occur.
Eye Contact: (Acute) Irritation, redness, pain, blurred vision, sensation of seeing halos around lights and reversible damage.
Ingestion: (Acute and Chronic) Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.
Other Chronic Health Effects: Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Section VII – Preventive Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Dike to reduce extent of spill.
Waste Disposal Method: Dispose of in accordance with federal, state and local pollution requirements.
Respiratory Protection: Adequate ventilation. Provide sufficient ventilation to keep vapor concentration below the TLV and/or PEL.
Protective Gloves: Required for prolonged and repeated contact. Refer to safety equipment supplier for effective glove recommendations.

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DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
PRIMERS: ENAMEL, CHROMATE, CORLAR® AND VARIPRIME®

SECTION 1 - Product and Company Identification

Manufacturer: E.I. du Pont de Nemours & Co.
Dupont Performance Coatings
Wilmington, DE, 19898

Telephone:
Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **PRIMERS: ENAMEL, CHROMATE, CORLAR® AND VARIPRIME®**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
MAGNESIUM SILICATE/CHLORITE/DOLOMITE/MAGNESITE	Not Avail	None	A None O None
ACETIC ACID ESTER	90438-79-2	0.8@68.0°F	A None O None
ACETONE	67-64-1	180.0@68.0°F	A 750.0ppm 15 min STEL A 500.0ppm O 1000.0ppm D 500.0ppm 8 & 12 hour TWA
ACRYLIC POLYMER-A	Not Avail	None	A None O None
ACRYLIC POLYMER-B	27027-16-3	None	A None O None
ACRYLIC POLYMER-C	29354-73-2	None	A None O None
ALIPHATIC POLY ISOCYANATE RESIN	28182-81-2	None	S 1.0mg/m^3 15 min STEL S 0.5mg/m^3 A None O None
ALKYD RESIN-A	66071-50-9	None	A None O None
ALKYLGLYCIDYL ETHERS	68609-97-2	0.1	A None O None
ALUMINUM HYDRATE	21645-51-2	None	A None O None
AMORPHOUS SILICA	7631-86-9	None	D 3.0mg/m^3 8 hr PEL O 20.0mppcf A 10.0mg/m^3 Total Dust
AROMATIC HYDROCARBON-A	64742-94-5	10.0	D 100.0ppm A None O None
AROMATIC HYDROCARBON-B	64742-95-6	10.0@25.0°C	D 50.0ppm A None O None
BARIUM DINONYLNAPHTHALENE SULFONATE	25619-56-1	10.0@25.0°C	A None O None
BARIUM SULFATE	7727-43-7	None	A 10.0mg/m^3 Total Dust D 10.0mg/m^3 Total Dust O 15.0mg/m^3 Total Dust A 5.0mg/m^3 Respirable Dust O 5.0mg/m^3 Respirable Dust
BENZENE,1-CHLORO-4 (TRIFLUOROMETHYL)	98-56-6	7.6@25.0°C	D 20.0ppm 8 & 12 hour TWA A None O None
BIS A /EPICHLOROHYDRIN	Not Avail	None	A None O None
BISPHENOL A/EPICHLOROHYDRIN POLYMER	25036-25-3	None	A 10.0mg/m^3 Total Dust O 15.0mg/m^3 Total Dust A 5.0mg/m^3 Respirable Dust O 5.0mg/m^3 Respirable Dust
BISPHENOL-EPICHLOROHYDRIN TYPE POLYMER	25068-38-6	None	A None O None

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Respiratory:
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 clothing:
Neoprene gloves and coveralls are recommended.

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

SECTION 9 - Physical and Chemical Properties

Evaporation Rate	Slower than Ether
Solubility in water	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	36 - 36 ° (C)
Approx. freezing range (°C)	-107 --107 ° (C)
Gallon weight (lbs/gal)	6.59 - 14.54
Specific gravity	0.79 - 1.74
Percent volatile by volume	37.07 - 99.93
Percent volatile by weight	23.75 - 99.91
Percent solids by volume	0.08 - 62.93
Percent solids by weight	0.09 - 76.25

SECTION 10 - Stability and Reactivity

Stability: Stable
Incompatibility (materials to avoid): water, alcohols, amines
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 100ºF) and combustibles (flashpoint between 100-200ºF) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.
Sensitivity to mechanical impact: Not Applicable

SECTION 11 - Additional Information

PRODUCT CODE **INGREDIENTS (Product Specific)**

235S™ acetone, acrylic polymer-a, barium sulfate, butyl benzyl phthalate, cyclohexanone, ethyl acetate, ethylbenzene(0.0-0.1%*@), iron oxide, kaolin, methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide, zinc oxide(2%*), zinc phosphate(13%*)
GAL WT: 10.72 WT PCT SOLIDS:62.80 VOL PCT SOLIDS:42.36
SOLVENT DENSITY: 7.09 VOC LE: 2.2 VOC AP: 1.4
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

250-S™ barium sulfate, cyclohexanone, diacetone alcohol, epoxy resin, ethylbenzene (0.1-0.2%*@), kaolin, methyl ethyl ketone(2%*@), methyl isobutyl ketone(18%*@), strontium chromate(19.3%*@), titanium dioxide 54
GAL WT: 11.62 WT PCT SOLIDS:66.95 VOL PCT SOLIDS:45.78
SOLVENT DENSITY: 7.05 VOC LE: 3.8 VOC AP: 3.8
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

614S™ isobutyl alcohol, methyl isobutyl carbinol, phosphoric acid, propylene glycol monomethyl ether acetate, water
GAL WT: 6.98 WT PCT SOLIDS: 1.70 VOL PCT SOLIDS: 0.72
SOLVENT DENSITY: 6.91 VOC LE: 6.8 VOC AP: 6.7
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

615S™ acetone, barium sulfate, butyl acetate, calcium carbonate, ethyl alcohol, ethylbenzene(0.1-0.1%*@), hydrous magnesium silicate, iron oxide, isopropyl alcohol, methyl isobutyl ketone(7%*@), n-butyl alcohol(2%*), nitrocellulose, phenolic resin, polyvinyl butyral resin, titanium dioxide, toluene (15-15%*@), zinc chromate(3.3%*@), zinc oxide(2%*)
GAL WT: 9.78 WT PCT SOLIDS:46.29 VOL PCT SOLIDS:25.60
SOLVENT DENSITY: 7.09 VOC LE: 5.2 VOC AP: 5.1
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 2 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

616S™ acetone, butyl acetate, heptane, n-butyl alcohol(42%*), phosphoric acid, propylene glycol monomethyl ether acetate, toluene(3%*@), water
GAL WT: 6.82 WT PCT SOLIDS: 1.66 VOL PCT SOLIDS: 0.69
SOLVENT DENSITY: 6.75 VOC LE: 6.7 VOC AP: 5.7
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

620S™ acetone, heptane, isobutyl alcohol, phosphoric acid, toluene(3%*@), water
GAL WT: 6.59 WT PCT SOLIDS: 1.70 VOL PCT SOLIDS: 0.69
SOLVENT DENSITY: 6.52 VOC LE: 6.4 VOC AP: 4.5
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

625S™ acetone, barium sulfate, butyl acetate, calcium carbonate, ethyl alcohol, ethylbenzene(0.1-0.2%*@), hydrous magnesium silicate, iron oxide, isopropyl alcohol, methyl isobutyl ketone(5%*@), n-butyl alcohol(2%*), nitrocellulose, phenolic resin, polyvinyl butyral resin, titanium dioxide, toluene (16-16%*@), triphosphoric acid, aluminum salt (1:1), zinc phosphate(3%*)
GAL WT: 9.65 WT PCT SOLIDS:45.02 VOL PCT SOLIDS:25.11
SOLVENT DENSITY: 7.09 VOC LE: 5.3 VOC AP: 5.2
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 2 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

824S™ barium sulfate, bisphenol a/epichlorohydrin polymer, butyl acetate, hydrous magnesium silicate, isopropyl alcohol , n-butyl alcohol(5%*), propylene glycol methyl ether, titanium dioxide, toluene(6%*@), zinc molybdate(1%*), zinc oxide(3%*)
GAL WT: 13.06 WT PCT SOLIDS:66.02 VOL PCT SOLIDS:38.13
SOLVENT DENSITY: 7.16 VOC LE: 4.4 VOC AP: 4.4
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

825S™ bisphenol a/epichlorohydrin polymer, hydrous magnesium silicate, iron oxide, isopropyl alcohol, methyl isobutyl carbinol, n-butyl alcohol(3%*), propylene glycol methyl ether, quartz-crystalline silica(1.5%), toluene(5%*@), zinc chromate(16.6%*@)
GAL WT: 13.54 WT PCT SOLIDS:69.51 VOL PCT SOLIDS:42.08
SOLVENT DENSITY: 7.12 VOC LE: 4.1 VOC AP: 4.1
FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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MSDS DIC 14
January 1, 2002

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
WASH PRIMERS, ACTIVATORS, AND ADDITIVES

SECTION 1 - Product and Company Identification

Manufacturer: E. I. DuPont de Nemours & Co.
DuPont Performance Coatings
Wilmington, DE 19898

Telephone: Product Information: (800) 441-7515
Medical Emergency: (800) 441-3637
Transportation Emergency: (800) 424-9300 (CHEMTREC)

Product: **M24 WASH PRIMERS, ACTIVATORS, AND ADDITIVES**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ACETONE	67-64-1	180.0@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
ALUMINUM TRIPHOSPHATE	13939-25-8	None	A None O None
BUTYLATED PHENOL-FORMALDEHYDE RESIN	96446-61-2	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
ETHYL ALCOHOL	64-17-5	30.0	A 1000.0 ppm O 1000.0 ppm D 1000.0 ppm 8 & 12 hour TWA
IRON OXIDE	1309-37-1	None	A 5.0 mg/m³ O 10.0 mg/m³
ISOPROPYL ALCOHOL	67-63-0	33.0	A 500.0 ppm 15 min STEL A 400.0 ppm O 400.0 ppm D 400.0 ppm 8 & 12 hour TWA
METHYL ETHYL KETONE	78-93-3	71.0 @ 0.0	A 300.0 ppm 15 min STEL D 300.0 ppm 15 min TWA A 200.0 ppm O 200.0 ppm D 200.0 ppm 8 & 12 hour TWA
METHYL ISOBUTYL KETONE	108-10-1	15.0	A 75.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm
N-BUTYL ALCOHOL	71-36-3	4.2 @ 68.0°F	D 50.0 ppm 15 min TWA D 25.0 ppm A 50.0 ppm CEIL Skin O 50.0 ppm CEIL Skin
PHOSPHORIC ACID	7664-38-2	None	A 3.0 mg/m³ 15 min STEL O 3.0 mg/m³ 15 min STEL A 1.0 mg/m³ O 1.0 mg/m³ D 1.0 mg/m³ 8 & 12 hour TWA
POLYVINYL BUTRYAL RESIN	27360-07-2	None	A None O None
TITANIUM DIOXIDE	13463-67-7	None	A 10.0 mg/m³ Respirable D 5.0 mg/m³ Respirable D 10.0 mg/m³ Total Dust O 15.0 mg/m³ Total Dust SiO2
WATER	7732-18-5	23.6	A None O None
ZINC PHOSPHATE	7779-90-0	None	A 10.0 mg/m³ O 15.0 mg/m³ O 5.0 mg/m³ Respirable

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WASH PRIMERS, ACTIVATORS, AND ADDITIVES
January 1, 2002

physician.

SECTION 5 - Firefighting Measures

Flash Point (Closed Cup) See Section 11 for exact values.
Flammable limits LFL 1.4 % UFL 21.0 %
Extinguishing media:
Universal aqueous film-forming foam, carbon dioxide, dry chemical.
Fire fighting procedures:
Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.
Fire & explosion hazards:
For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

SECTION 6 - Accidental Release Measures

Steps to be taken in case material is released or spilled:
Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

SECTION 7 - Handling and Storage

Precautions to be taken in handling and storing:
Observe label precautions. If combustible (flashpoint between 100 - 200°F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100°F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20°F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F. If product is waterbased, do not freeze.
Other precautions:
If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation, and gloves.

SECTION 8 - Exposure Controls or Personal Protection

Engineering controls and work practices:
Ventilation:
Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.
Respiratory:
Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer s directions for respirator use. Do not permit anyone without protection in the painting area.
Protective clothing:
Neoprene gloves and coveralls are recommended.
Eye protection:
Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

SECTION 9 - Physical and Chemical Properties

Evaporation Rate	Slower than Ether
Solubility in water	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	46 – 118°C)
Approx. freezing range (°C)	-86 - -98°(C)
Gallon weight (lbs./gal)	6.86 - 7.93
Specific gravity	0.82 - 0.95
Percent volatile by volume	84.17 - 99.07
Percent volatile by weight	70.51 - 97.77
Percent solids by volume	0.93 - 15.84
Percent solids by weight	2.23 - 29.49

SECTION 10 - Stability and Reactivity

Stability:
Stable
Incompatibility (materials to avoid):
None reasonably foreseeable
Hazardous decomposition products:
CO, CO_2, smoke, and oxides of any heavy metals that are reported in Section 2.
Hazardous polymerization:
Will not occur.
Sensitivity to static discharge:
For flammable materials (flashpoint less than 100°F) and combustibles (flashpoint between 100-200°F) If heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.
Sensitivity to mechanical impact:
Not Applicable

SECTION 11 - Additional Information

PRODUCT CODE **INGREDIENTS (Product Specific)**

691-474 Acetone (2.0%), Aluminum Triphosphate (5.0%), Butylated Phenol-Formaldehyde Resin (5.8%), Carbon Black (0.1%), Iron Oxide (2.2%), Isopropyl Alcohol (16.7%), Methyl Ethyl Ketone (28.9%*@), Methyl Isobutyl Ketone (13.4%*@), N-Butyl Alcohol (9.1%*), Polyvinyl Butryal Resin (7.4%), Titanium Dioxide (3.2%), Zinc Phosphate (3.6%*)
GAL WT: 7.93 WT PCT SOLIDS: 29.49 VOL PCT SOLIDS: 15.84
SOLVENT DENSITY: 6.65 VOC LE: 5.6 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: NO

PG-476 Ethyl Alcohol (14.1%), N-Butyl Alcohol (80.5%*), Phosphoric Acid (2.2%), Water (1.7%)
GAL WT: 6.86 WT PCT SOLIDS: 2.23 VOL PCT SOLIDS: 0.93 SOLVENT DENSITY: 6.77 VOC LE: 6.7 VOC AP: 6.6
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

Footnotes:
TSCA: In compliance = In compliance with TSCA Inventory requirements for commercial purposes.
ACGIH = American Conference of Government Industrial Hygienists.
IARC = International agency for Research on Cancer.
NTP = National Toxicology Program.
OSHA = Occupational Safety and Health Administration.

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