

Department of Environmental Protection

Jeb Bush Governor Twin Towers Office Building 2600 Blair Stone Road Tallahassee, Florida 32399-2400

David B. Struhs Secretary

February 14, 2002

CERTIFIED MAIL - Return Receipt Requested

Mr. Lee Schmudde Vice President, Legal Walt Disney World Co. P.O. Box 10,000 Lake Buena Vista, Florida 32830-1000

Re: Walt Disney World Resort

Conditional Exemption for One Paint Spray Booth

Disney's Animal Kingdom Theme Park: Spray Booth (DAKU-53)

Dear Mr. Schmudde:

The Department has evaluated the submittal regarding the above referenced proposed new emission activity, in which one paint spray booth (DAKU-53) will be located adjacent to the "Back of House" facilities building, which supports Disney's Animal Kingdom theme park. The operation will emit volatile organic compounds (VOC) emissions.

The DAKU-53 operation will be used to spray coating materials on fixtures, furniture, props, and other assorted wood and metal products, and as needed for touch-up requirements. The increase of potential VOC emissions from the new booth is 0.6 ton per year (TPY; potential/estimated gallons per year usage of paints and solvents are 400).

The existing facility is a "major source of air pollution" or "Title V Source" for criteria pollutants and hazardous air pollutant emissions pursuant to Rule 62-210.200, Florida Administrative Code (F.A.C.), Definitions, and received its initial Title V operation permit on December 31, 1997, and became effective on January 1, 1998. Since the proposed contemporaneous VOC emissions increase is much less than the significant emissions rate of 40 TPY contained in Table 212.400-2, F.A.C., the proposal is not subject to PSD new source review pursuant to Rule 62-212.400(5), F.A.C.; also, for PSD review consideration pursuant to Rule 62-212.400(6)(b), F.A.C., it is determined that the proposal is not considered as part of a phased project. Finally, there are no specific emission limiting standards pursuant to Rule 62-204.800 and Chapter 62-296, F.A.C.

Based on the above findings, the Department is granting a conditional exemption from the air permitting requirements of the Florida Department of Environmental Protection for the subject paint spray booth. The exemption is based on the premise that any air pollutants emitted from the proposed paint spray booth will not be in significant quantities to contribute to air pollution problems in the state pursuant to Rule 62-4.040(1)(b), F.A.C.

The conditions of this exemption are:

- A. Disney's Animal Kingdom Theme Park: Spray Booth (DAKU-53)
 - 1. The total material usage of the paint spray booth operations is 400 gallons per calendar year.
 - 2. The owner or operator(s) will account for the materials used using a materials balance scheme, which employs the following:
 - a. a beginning inventory of materials in stock (on or about 1/1/yr);
 - b. adding any materials received during the year;
 - c. subtracting any materials recycled during the year; and,
 - d. subtracting any ending inventory of materials in stock (on or about 12/31/yr), with the net result assumed to have been used and emitted.

"More Protection, Less Process"

Walt Disney World Resort Conditional Exemption for One Paint Spray Booth Disney's Animal Kingdom Theme Park: Spray Booth (DAKU-53) February 14, 2002 Page 2 of 4

- 3. Any records shall be retained for a five year period and made available for Department inspection upon request.
- 4. The operation of this activity shall not cause or contribute to an objectionable odor.
- 5. If the conditions on which this exemption are based change, the operator shall notify the Department's Bureau of Air Regulation of the changes and request the exemption be amended.
- 6. Upon the next opening of the facility's Title V operation permit, this paint spray booth will be identified/designated as an "unregulated" emissions unit/activity and placed in Appendix U-1, Unregulated Emissions Units/Activities, for future inventory purposes on an every 5-year basis, starting in year 2000.

This conditional exemption will take effect 21 days from the clerking date unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, Florida Statutes (F.S.). The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed agency action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within twenty-one days of publication of the public notice or within twenty-one days of receipt of this notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within twenty-one days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate: (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and, (f) A demand for relief.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the request for conditional exemption have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

NOTICE OF APPEAL RIGHTS

Any party to this conditional exemption has the right to seek judicial review of it under Section 120.68, F.S., by filing a Notice of Appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this conditional exemption is filed with the Clerk of the Department.

A copy of the conditional exemption and accompanying materials related to the proposed agency action are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the

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Department of Environmental Protection, Division of Air Resources Management, Suite 23, Magnolia Courtyard, 111 South Magnolia Drive, Tallahassee, Florida 32301, and at the Department's Central Florida District Office, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Howard L. Rhodes, Director

Division of Air Resources Management

2600 Blair Stone Road

Tallahassee, Florida 32399-2400

(850)488-0114

Walt Disney World Resort Conditional Exemption for One Paint Spray Booth Disney's Animal Kingdom Theme Park: Spray Booth (DAKU-53) February 14, 2002 Page 4 of 4

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF CONDITIONAL EXEMPTION and all copies were sent by certified mail before the close of business on to the person(s) listed:

Mr. Lee Schmudde, Vice President, Legal, Walt Disney World Co.

In addition, the undersigned duly designated deputy agency clerk hereby certifies that copies of this NOTICE OF CONDITIONAL EXEMPTION were sent by U.S. mail on the same date to the person(s) listed, unless otherwise noted:

Mr. Len Kozlov, CD (Interoffice mail)

Mr. Richard Bumar, P.E., Walt Disney World Co.

Mr. Scott Sheplak, BAR (hand delivered)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated agency Clerk, receipt of which is hereby acknowledged.

Clerk)

HLR/CHF/bm

February 6, 2002

Mr. Clair Fancy, P.E. Chief, Bureau of Air Regulation Florida Department of Environmental Protection 2600 Blair Stone Road Tallahassee, Florida 32399-2400

RE:

Installation of one new paint spray booth Disney's Animal Kingdom Paint Shop

Dear Mr. Fancy:

This letter proposes a conditional exemption from construction permitting requirements for a new paint spray booth at the Walt Disney World Resort complex. The unit will be located adjacent to the "Back of House" facilities building which supports Disney's Animal Kingdom theme park. The booth is a model OWA-22-PSB-S, manufactured by JBI, Inc., and will be used to spray coating materials on fixtures, furniture, props, and other assorted wood and metal products. The booth will utilize dry paint arrestor type filters to capture paint overspray. Please designate this spray booth as DAKU-53.

Based on the proposed production schedule and material usage rate, the booth has the potential to emit no more than 0.6 tons of Volatile Organic Compounds (VOC) per year. Please refer to Attachment A for the calculations that verify this amount and for the booth's design drawings. Attachment B shows the location and plot plan of the proposed emissions unit. Attachment C contains the professional engineer's certification and the responsible official's statement.

Since the potential VOC emissions from the operation are below the 40-ton significance threshold established in 62-212 F.A.C., it is requested that the unit be granted a conditional exemption from construction permitting requirements. It is further requested that the spray booth be added as an unregulated emissions unit to the Walt Disney World Resort's Title V permit upon its next opening.

If you require any further information, please call me at 407-828-3847. I can also be reached by email at rich.bumar@disney.com.

Sincerely,

Rich Bumar, P.E.

Sr. Environmental Control Representative

Attachments

cc: Mike Bass (w/o Attachments)

Leonard Kozlov Bruce Mitchell

Mike Morrow (w/o Attachments)

Armando Rodriguez (w/o Attachments)

Lee Schmudde (w/o Attachments)

Scott Sheplak (w/o Attachments)

CONDITIONAL EXEMPTION REQUEST

DISNEY'S ANIMAL KINGDOM BACK OF HOUSE FACILITIES BUILDING PAINT SPRAY BOOTH

WALT DISNEY WORLD CO.

February 6, 2002

SUPPLEMENTAL INFORMATION

CONTENTS

ATTACHMENT A

- SPRAY BOOTH EMISSIONS CALCULATIONS
- SPRAY BOOTH DESIGN DRAWINGS
- PAINT MATERIAL TECHNICAL MANUALS AND MSD SHEETS

ATTACHMENT B

- FACILITY PLOT PLAN
- AREA MAP

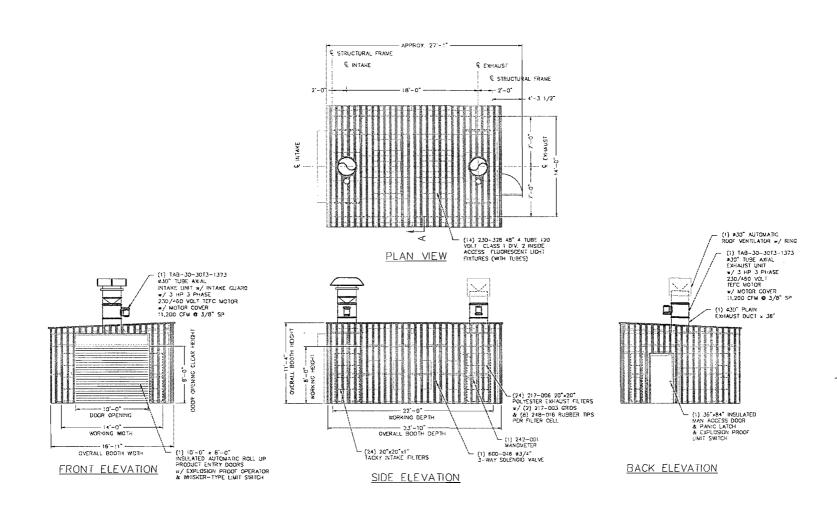
ATTACHMENT C

- RESPONSIBLE OFFICIAL'S STATEMENT
- PROFESSIONAL ENGINEER'S CERTIFICATION



ATTACHMENT A

SPRAY BOOTH EMISSIONS CALCULATIONS SPRAY BOOTH DESIGN DRAWINGS PAINT MATERIAL TECHNICAL MANUALS AND MSD SHEETS



ATTACHMENT A
SPRAY BOOTH DESIGN DRAWINGS
DISNEY'S ANIMAL KINGDOM - BACK OF HOUSE FACILITIES BUILDING PAINT SPRAY BOOTH

Attachment A

Disney's Animal Kingdom Facilities Building Spray Booth- DAKU-53

Class Manufacturer Material Name Usage Epoxy DuPont Corlar 25P (spray ready) ¹	ected VOC nual conten	η t , , , , , , , , , , , , , , , , , , ,	Annual tons
Enougy Corder 25D (enroy ready) ¹			
Epoxy DuPont Corlar 25P (spray ready) ¹	200 2	2.7 540	0.27
Polyurethane DuPont Imron 610P (spray ready) ² Totals	200 3 400 gallons	3.5 700 5 1,240	0.35

¹Reference Corlar 25P technical manual

²Reference Imron 610P technical manual



DuPont Industrial Coatings

CORLAR® 25P

high solids epoxy mastic

Type:

Amido amine modified polyamide epoxy

Description:

Corlar® 25P is a two-package (1:1 mix), high solids, high build, VOC Conforming (see VOC chart), multi-use epoxy mastic coating. It provides outstanding application properties-no induction time, long pot life, can be applied in hot or cold weather, faster dry times, excellent film build on both flat surfaces and edges, goes over handcleaned, rusty surfaces, can be applied over damp surfaces, most other coatings and can be topcoated with a wide range of coatings. Its performance and durability are excellent under most conditions and environments.

Suggested Uses:
Corlar® 25P is a multi-use product suitable for application in a variety of situations.

- As a single coat in non-corrosive, interior environments (5-8 mils DFT).
- As a single coat in corrosive, interior environments (10-12 mils DFT).
- As a primer in 2 or 3 coat systems (3-8 mils DFT).
- As an intermediate or mid-coat in a 3 coat system (4-6 mils DFT).
- Provides excellent durability and adhesion over steel, galvanized steel, masonry-concrete, concrete floors and wood.

Recommended For Immersion Service:

Corlar® 25P is recommended for immersion service in near neutral, fresh or salt water exposures. It is not recommended for use with potable water. It may be used for fire water towers, ballast tanks, clarifiers, waste water treatment plants, offshore structures, pier pilings and supports and other areas where a high level of water resistance is required.

While the application of Corlar® 25P for immersion is recommended for the above conditions, certain procedures must be followed for successful application. Contact DuPont for complete "Fitness for Use Recommendations" as well as specifications and application procedures.

See Additional Comment #6.

Compatibility With Other Coatings:

- Corlar® 25P is highly compatible with most generic types of coatings.
- It can be applied over most coatings in sound condition. If in doubt, apply a test patch before painting.

Color Change/Chalking:

Corlar® 25P is primarily designed for corrosion protection and like all epoxies, will chalk upon exposure to sunlight. If gloss, color retention and color stability are important, Corlar® 25P should be topcoated with Imron® 333 or 333M, DuPont 50P or Tufcote® 72P

Maximum Service Temperature:

250° F (121° C) in continuous service 300° F (148° C) in intermittent heat 100° F in immersion service

Resistance:

Excellent Very Good Abrasion Acids Alkalis Excellent Ammonia Excellent Humidity Excellent Salts Excellent

Solvent Excellent Weather

Very Good (will chalk on exterior

Volume Solids (Mixed):

70% Avg.

Weight Solids (Mixed):

Weight Per Gallon (Mixed):

11.8 Lb. Avg.

5.4 Kg. Avg.

Suggested Film Build (DFT):

Single Coat — 5-8 mils in noncorrosive environment 10-12 mils in corrosive environment and immersion service

Primer — 3-8 mils Mid Coat - 4-6 mils

Theoretical Coverage Per Gallon:

1122 ft.² @ 1 mil DFT 224 ft.² @ 5 mils DFT 112 ft.² @ 10 mils DFT

Gloss:

Satin Finish

Colors:

Factory Packaged-White, Cirrus Gray, Shale Gray, Clay Tan, Red Oxide, Aluminum

Custom Color—See Industrial Coatings Color Selector *Note: As with all epoxies, eposure to certain conditions will accelerate chalking/yellowing of dried film.

Flash Point (Tag Closed Cup):

25P Bases > 100°F VF-525 < 73°F

CORLAR® 25P

high solids epoxy mastic

APPLICATION INSTRUCTIONS

Surface Preparation:

For atmospheric service, an SSPC-SP 6. (Commercial) is preferred for optimal performance. If not possible or practical, then hand tool clean to an SSPC-SP 2 or power tool clean to an SSPC-SP 3. For immersion service, an SSPC-SP 5 is required.

Activation:

Add 1 part VF-525 activator to 1 part 25P base. Mix until thoroughly blended. You may begin painting immediately—there is no induction time.

Reduction:

2-5% of Y-32035 is required under normal conditions for airless spray. 7-10% is the suggested level of thinning for conventional spray. For maximum pot life, reduce 15% by volume with Y-32035 or RT001P.* Use T-8054 thinner in hot or windy conditions for spray application. Reduce 10-15% with RT001P thinner when applying by roller or brush. If more reduction is required, consult your local DuPont Industrial Coatings representative. * See Additional Comments #3

Pot Life:

8 hours @ 70°F to 90°F when reduced 15% by volume with Y-32035 or RT001P thinner.

Shelf Life:

12 months minimum

Application Thinners:

Normal Conditions — Y-32035 Hot or Windy Conditions — T-8054 (spray) Brush or Roll — RT001P

Clean Up Thinners:

T-8054 or MEK

Packaging:

1 & 5 gallon containers

Shipping Weight (Lbs.):

	<u>Base</u>	<u>Activator</u>
1 gallon container	14	11
5 gallon container	68	55

Safety:

Consult the Material Safety Data Sheet for this product prior to use.

Application Conditions:

Do not apply if material, substrate or ambient temperature is below 35°F (2°C) or above 100°F (43°C).

Dry Times (Hours @ 5 mils DFT 50% R.H.)

	50°F	70°F	90°F
	(10°C)	(21°C)	(32°C)
To Touch	3-4	2-3	1-2
To Handle	8	4	2
To Recoat	5	3	2
Full Cure	14 Days	7 Days	4 Days

Application:

Apply by brush, roll, or spray

Roll

1/4"-1/2" lambs wool or synthetic roll cover such as One Coater®. Keep roll wet. Roll in one direction, rewet, then cross roll.

Manufacturers listed below are a guide. Others may be used. Changes in pressure and tip size may be required to achieve proper application.

Air Spray:

	Binks	DeVilbiss	Graco
Spray Gun:	18 or	JGA502 or	Delta
	62	MBC510	239-545
Fluid			
Nozzle:	66 or 67	E or D*	.110
Air Cap:	66 or	704, 765,	192-319
	67PB	or 78	

* See Additional Comments #4

Airless Spray:

Pump: Capability to produce 3000 psi (e.g. Graco Bulldog, EH333 or GM5000)

High Pressure Filter: 60 Mesh Fluid Hose: 3/8" x 150' max.

Note: If more than 100', use 45:1 King and to 1/2" x 100'

plus 3/8" x 50'

Airless Gun: Graco 207945, 208663, 220-954 or 220-730

Tips: .015"-.027"

Minimum pressure to avoid fingering: 2000 psi

Additional Comments:

 Custom Color bases are short filled to allow for colorant addition.

1LB25P—Light base (124 oz./gal.) 2MB25P—Medium base (120 oz./gal.) 3DB25P—Deep base (116 oz./gal.) 4NB25P—Neutral base (112 oz./gal.)

USDA approved.

 At 15% reduction, reduced maximum film thickness will be obtained.

 If using D fluid nozzle, minimize reduction to avoid runs and sags.

 Recoating of Corlar® 25P should be done as soon as possible - at 70° F, this is around 3 hours. In accor dance with SSPC Best Painting Practices, and in an attempt to minimize contamination between coats, please use the following guidelines as best practice for assuring proper adhesion.

A. After 7 days water wash, 1500 psi, recoat as soon as possible.

B. After 30 days:

Option 1: Water wash, 1500 psi and apply 2 mils coat 25P. Topcoat as soon as possible.

Option 2: Sweet blast surface SSPC-SP7, water

Option 2: Sweet blast surface SSPC-SP7, wate wash, 1500 psi, and apply topcoat as soon as possible.

All technical advice, recommendations and services are rendered by the Seller graits. They are based on technical data which the Seller believes to be reliable, and are intended for use by persons having skill and know-how at their own discretion and risk. Seller assumes no responsibility for results obtained or damages incurred from their use by Buyer in whole or in part. Such recommendations, technical advice or services are not to be taken as a license to operate under or intended to suggest infringement of any existing patent.



DuPont Industrial Coatings

CORLAR® 25P

PHYSICAL PROPERTIES

Physical properties listed are averaged across several Corlar® 25P product colors. Properties are for Corlar® 25P only and are enhanced when used in conjunction with topcoats such as Imron® polyurethane or at higher film builds. For specific system results, contact DuPont Industrial Coatings.

Dry Film Thickness (DFT):

5.3

Salt Fog (ASTM B117)

1000 hours - no rusting, no blisters

2000 hours - no rusting, very few #2 blisters at the scribe 3000 hours - very few #2 blisters at the scribe, no rusting, no undercutting at the scribe

Relative Humidity (ASTM D2247)

1000 hours - no rusting, no blisters

2000 hours - no rusting, very few #2 blisters on the face of the panel

3000 hours - no rusting, very few #2 blisters on the face of the panel

Dry Heat (ASTM D2485) 250 F for 24 hours:

no cracking

no blisters

very slight loss of adhesion

very slight discoloration

Electrical Resistance (ASTM D2457):

5.5 x 0^7

Adhesion (ASTM D4521 A2):

>2000 psi

Cleveland Cond (ASTM D4585):

1000 hours - no rusting, no blisters, no delamination

Impact (ASTM D2794):

1 inch pound

Mandrel Bend (ASTM D522):

% elongation - 0%

Taber Abrasion (ASTM D4060):

weight loss in grams - 0.41

Volatile Organic Content (VOC) Theoretical:

		70	VUC	VUC		
Condition	<u>Thinner</u>	<u>Max</u>	(lbs/gal)*	(g/l)*		
Airless Normal	Y32035	2-5	2.3	276		
Conventional	Y32035	7-10	2.5	300		
Max. Pot Life	Y32035	15	2.7	324		
	RT001P	15	2.8	336		
Hot & Windy	T-8054	10-15	2.8	336		
Brush & Roll	RT001P	10-15	2.8	336		
Mixed Unthinne	d					
Colors			2.1	252		
Mixed Unthinned						
6AL25P			2.3	276		

*Reported values at higher level of reduction (theorectical/ave.)

VOC values by color reported values are averages.
6AL25P maximum reduction to stay within 2.8 lbs./gal. VOC = 10% with RT001P, T-8054 or Y32035

Additional Comments (Continued):

- 6. Do not roll for immersion applications. Spray apply only.
- When applying over inorganic zinc primers, a mist coat is recommended for best results to minimize bubbling. Apply a mist coat and allow bubbles to break. Apply a full wet coat after mist coat.
- Under certain high humidity and low temperature conditions an amine blush is possible. This blush should be removed before proceeding with next coat.
- Epoxies chalk with extended exposure to sunlight. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during aplication and initial stages of curing may cause yellowing to occur.



DuPont Industrial Coatings

IMRON® 610P

DuPont Industrial Coatings

high solids clear

Type:

A 2-Package Polyurethane

Description:

A high solids, two-package, VOC conforming clear consisting of a clear enamel (610P) which is based on patented DuPont resin technology and an isocyanate activator (VG610). It is an extremely durable finish having outstanding gloss retention. Imron® 610P also has excellent cleanability and chemical resistance.

Suggested Uses:

- Topcoat over Imron® 333, Imron® 610 ASD
- · Gloss enhancer to restore old, dull finishes

Not Recommended For:

Immersion Service

Compatibility With Other Coatings:

Can be applied directly over Corlar® Epoxies, or Imron® 333. May be used over any old finish after testing for lifting of old finish.

* See Additional Comments #3.

Dry Film Characteristics:

Acids—Excellent Alkalis—Excellent Humidity—Excellent Abrasion & Mechanical Salts—Excellent Weather—Excellent

Maximum Service Temperature:

200°F (93°C) in continuous service 300°F (148°C) in intermittent heat Some yellowing of light colors may occur at elevated temperatures.

Volatile Organic Content (VOC) theoretical:

Component VOC 3.8 lbs/gal. (456 g/l)
Mixed VOC, no reduction
Mixed VOC, reduction
with 68083 thinner or
2 oz. of 389S 3.5 lbs/gal. (420 g/l)

Volume Solids (Mixed):

52%

Weight Solids:

58%

Weight Per Gallon (Mixed):

8.3 Lbs. 3.7 Kg.

Suggested Film Build:

3-4 mils (75-100 μm) wet (WFT) 1.5-2 mils (37-50 μm) dry (DFT)

Coverage Per Gallon: *

834 ft.² (20.5m²/L)@ 1 mil 556 ft.² (13.6m²/L)@ suggested dry film thickness of 1.5 mils * Material losses during mixing and application will vary and must be taken into consideration when estimating job requirements.

Gloss:

90 @ 60° minimum

Colors:

Clear

Flash Point (Tag Closed Cup):

Between 73-100°F (23° to 38°C) Enamel Between 20-73°F (-7° to 23°C) Activator

Shelf Life:

1 year minimum

Application Thinners:

Spray, Brush, Roll: Y-32401 or 68083

Clean-Up Thinners:

Y-32035 or MEK

Packaging:

Enamel: 1's (75% full); 5's (60% full); 55's (full) Activator: Quarts and gallons

Shipping Weight (Lbs.):

Enamei /

Activator

All technical advice, recommendations and services are rendered by the Seter gradies. They are based on rechnical data which the Seter believes to be reliable, and are intended for use by persons having skill and know-how at their own discretion and risk. Seter assumes no responsibility for results obtained or damages incursed from their use by Buyer in whole or in part. Such recommendations, technical edvice or services are not to be taken as a facine to operate under or intended to upgreat infringement of any existing peach.

Safety:

IMRON® 610P Clear

Warning—VG-610 Activator contains aliphatic isocyanates.

Dangerl Vapors and spray mist are harmful if inhaled. Overexposure may cause lung injury, allergic respiratory reaction, dizziness and nervous system damage. The effects may be permanent. These materials are flammable and they may irritate eyes and skin.

VG-610 contains aliphatic polyisocyanates and hexamethylene diisocyanate monomer. The activated mixture contains all of the components of the activator plus esters, ether esters, and petrolem disillates. Do not breathe the vapor or spray mist.

Wear a respirator, eye protection, gloves, and protective clothing while mixing activator with enamel, during application, and until all vapors and spray mist are exhausted.

Wear a positive-pressure, supplied-air respirator (NIOSH/MSHA TC-19C) during the spray application (or brush or roll application in poorly ventilated areas) of this product. For mixing and for brush and roll application in well ventilated areas, a negative pressure, vapor/particulate respirator (NIOSH/MSHA TC-23C) can be used provided the wearer has been properly fit-tested for the respirator. Follow respirator manufacturer's directions for respirator use.

Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to vapors or spray mist. Do not get in eyes or on skin. Keep away from heat, sparks, and flame. Vapors may cause a flash fire. Use only with adequate ventilation. Keep the container closed when not in use. If you have any questions regarding the safe handling of these products, call 800-441-7515.

IMRON® 610P

high solids clear

APPLICATION INSTRUCTIONS

Surface Preparation:

Newly primed surfaces should be clean and dry. If contaminated, detergent/water wash, then blow dry. Previously painted surfaces should have all loose paint removed and the edges feathered. Prime bare spots with appropriate primer.

Activation:

Thoroughly mix 3 parts of enamel, then add 1 part of VG-610 activator while stirring. No induction period is necessary.

Pot Life

1.5 – 2 hours @ 77°F and 50% R.H. Higher temperatures and humidity will severely shorten pot life.

Reduction:

Normally 0-3% (1-4 oz.) reduction is adequate for spray application depending upon conditions and equipment. Maximum reduction should not exceed 3%. Use Thinner 68083. If faster recoat and handling is required, add up to 2 oz./gal. of 389S accelerator.

Storage Conditions:

Store in a dry, well ventilated area. Storage temperatures should be between -30°F (-34°C) and 120°F (48°C).

Additional Comments:

- Dry times can be improved by adding 389 S accelerator at the rate of 2 oz./activated gallon.
- 2. May be recoated by spray when tack-free.
- For best results when applying 610P over itself or over other Imron products, the clear should be applied within 72 hours @ 70°F. If more than 72 hours has elapsed, the surface should be scuffed with very fine (400-600) sand paper before applying the 610P.

Application Conditions:

This product is best applied by spray. Do not apply if the application surface is below 45°F (7°C) or above 110°F (43°C), or if the atmospheric temperature is within 5°F of the dew point. For best results, application temperature should be between 65°F and 85°F. Relative humidity should be below 90%. For application temperatures below 45°F, the use of 389S accelerator is required. Mix only amounts that 9 airfess spray application, tip size must not exceed .011".

Drying Time (Hours @ 77°F (25°C), 50% R.H. @ 1.5-2.0 mils suggested DFT): Hours With 2 oz. 389S

	<u>Hours</u>	With 2 oz. 389
Dry to Touch	4-6	1-2
Dry to Recoat	10-12	2-4
Dry to Handle	10-12	8
Pack/Ship	24	16
Full Cure	7 days	6 days
Pot Life	1.5-2	1.5-2

Application Equipment:

- · Apply by spray, brush or roll.
- Manufacturers listed below are a guide.
 Others may be used. Changes in pressure and tip size may be required to achieve proper application.

Roll:

'A" - '½" lambs wool or synthetic roll cover such as One Coater⁸. Keep roll wet. Roll in one direction, rewet, then cross roll. May not be useful for large flat surfaces.

Air Spray:

	Binks	DeVilbiss
Spray Gun:	#18 or #62	JGA502 or
		MBC510
Fluid Nozzle:	66 or 67	E or D
Air Cap:	66 or 67 PB	704, 765 or 78
		. ,

Airless Spray:

0.009"-0.011" Airless Tip

2100-2250 psi pressure (minimum to avoid fingering)

Note: Avoid excessive film builds.

Air spray application is preferred method for finest finish.

All technical edvice, recommendations and sorvices are rendered by the Seler grads. They are based on letchnical date which the Selier believes to be reliable, and are intended for use by persons having skill and know-how at their own discretion and know. Seler issumes no responsibility for results obtained or disninges incurred from their use by Buyer in whole or in part. Such recommendations, technical advice or services are not to be taken as a license to operate under or intended to apposit inforgement of any existing paths.

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

							A None
SECTIO	N 1 - Product and Co	mpany Identificat	ion				O None
Manufacturer:	E.I. DuPont de Nemour DuPont Performance Co Wilmington, DE, 19898			BUTYL ACETATE	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm
Telephone:	Product Information: Medical Emergency: Transportation Emerge	(800) 441-3 (800) 441-3 ncy: (800) 424-9 (CHEMTRE	3637 9300	DIBUTYL TIN DILAURATE	77-58-7	0.2 @160.0°C	O 150.0 ppm A None
							O None
Product: IMR	ON ACTIVATORS, CLE		VES	DIMETHYL GLUTARATE	1119-40-0	0.2	D 10.0 mg/m ³
DOT Shipping Name	: Se	ee DOT addendum.					A None O None
Hazardous Materials	Information: Se	ee Section 10.		ETHYL ACETATE			
SECTION	2 - Composition, Info	rmation on Ingred	lients		141-78-6	76.0	A 400.0 ppm O 400.0 ppm
INGREDIEN	TS CAS#	VAPOR PRESSURE	EXPOSURE LIMITS	ETHYLBENZENE			о постория
ACCTONG		PRESSORE	LIMITS	LITTEDENZENE	100-41-4	7.0	A 125.0 ppm 15 min STEL
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				A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA
			TWA	ETHYLENE GLYCOL MONOBUTY	LETHER ACETAT	E 0.3	D 10.0 ppm
ACRYLIC POLYMER-	80010-53-3	3 None	A None O None		112-07-2	0.5	Skin A None O None
ACRYLIC POLYMER-	В			HYDROUS MAGNESIUM SILICAT	Έ		
	104032-39-	5 None	A None O None		14807-96-6	None	A 2.0 mg/m ³ Respirable D 0.5 mg/m ³
ALIPHATIC POLYISO	CYANATE RESIN 28182-81-2	2 None	S 1.0 mg/m ³				8 & 12 hour TWA
	20102 01 1	. Hone	15 min STEL S 0.5 mg/m ³ A None	METLINI AMNI KETONE			Respirable Dus O None
			O None	METHYL AMYL KETONE	110-43-0	2.1	A 50.0 ppm
AMORPHOUS SILICA	7631-86-9	None	A 1.0 mg/m ³ 15 min STEL	METHYL ETHYL KETONE			O 100.0 ppm
,			O 15.0 mg/m ³ A 0.2 mg/m ³ Respirable O 5.0 mg/m ³ Respirable	PIETHTE ETHTE RETONE	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
AROMATIC HYDROCA	ARBON-B 64742-95-6	5 10.0 @ 25.0°C	D 50.0 ppm A None O None				D 200.0 ppm 8 & 12 hour TWA
BUTANEDIOIC ACID	, DIMETHYL ESTER 106-65-0	None	D 10.0 mg/m ³	PROPYLENE GLYCOL MONOMET	HYL ETHER ACET 108-65-6	7ATE 3.7	D 10.0 ppm 12 hr TWA
				1			

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			A None O None	depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged
SILICONE RESIN	9016-00-6	7.0	A None O None	overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may
SUBSTITUTED BENZOTRIAZOLE	25973-55-1	None	A None O None	be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung
SYNTHETIC AMORPHOUS SILICA	63231-67-4	None	O 6.0 mg/m³ PEL	function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.
TOLUENE	108-88-3	22.0	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm 8 & 12 hour	Ingestion: May result in gastrointestinal distress. Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Other Potential Health Effects in addition to those listed above:
XYLENE	1330-20-7	9.0 @ 25.0°C	TWA A 50.0 ppm Skin O 500.0 ppm 10 min TWA Maximum A 100.0 ppm TWA A 150.0 ppm 15 min STEL D 150.0 ppm 15 min STEL	May cause irritation of the mucous membranes. The following medical conditions may be aggravated by exposure: respiratory system skin Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Overexposure may cause damage to any of the following organs/systems: blood eyes kidneys liver respiratory system skin Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness. ALIPHATIC POLYISOCYANATE RESIN
			O 100.0 ppm D 100.0 ppm 8 & 12 hour TWA	Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. The following medical conditions may be aggravated by exposure: asthma lung disease bronchitis eczema skin disorders
1, 6 HEXAMETHYLENE DIISOCYA	NATE 822-06-0	0.0 @ 25.0℃	A 5.0 ppb O None	May cause any of the following central nervous system effects: breathing difficulties headache nausea vomiting Contact may cause skin irritation with discomfort or rash. Repeated exposure may cause allergic skin rash, itching, swelling.
1,2,4-TRIMETHYL BENZENE	95-63-6	7.0 @ 44.4 ℃	A 25.0 ppm O 25.0 ppm	May cause eye irritation with discomfort, tearing, or blurred vision. Can be absorbed through the skin in harmful amounts. Repeated overexposure to isocyanates may cause lung injury,
2-(2H-BENZOTRIAZOL-2-YL)-4,6 2,4-PENTANEDIONE	-BIS(1-METHYL 70321-86-7	-1-PHENYLETHYL None	.)PHENOL S 2.0 mg/m ³ A None O None	including a decrease in lung function, which may be permanent. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. Material may be harmful or fatal if swallowed. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin.
•	123-54-6	7.0	A None	•
*A=ACGIH, O=OSHA, D=DuPon otherwise specified. Vapor press				AROMATIC HYDROCARBON-B Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with quipes pigs, does or morkeys

SECTION 3 - Hazards Information

Potential Health Effects: Inhalation:

May cause nose and throat irritation. May cause nervous system

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

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BUTYL ACETATE

May cause abnormal liver function.

The following medical conditions may be aggravated by exposure: respiratory system

May cause eye irritation with discomfort, tearing, or blurred vision. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

DIBUTYL TIN DILAURATE

Contact may cause skin burns.

Causes eye corrosion and permanent injury.

Can be absorbed through the skin in harmful amounts.

ETHYL ACETATE

Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs.

ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen.
Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system kidneys liver lungs Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE

May destroy red blood cells.

May cause abnormal kidney function.

May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath.

The following medical conditions may be aggravated by exposure: central nervous system gastrointestinal system kidneys liver dermatitis

Can be absorbed through the skin in harmful amounts. Overexposure may cause damage to any of the following organs/systems: blood kidneys liver Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

METHYL AMYL KETONE

Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

Over exposure may cause eye, nose and throat irritation. Repeated or prolonged liquid contact may cause skin irritation and dermatitis. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure

to solvents may lead to permanent brain and nervous system damage. Prolonged or repeated skin contact may cause drying, cracking, or irritation. Inhalation of high vapor concentrations may cause any of the following: drowsiness irritation

METHYL ETHYL KETONE

Material is irritating to mucous membranes and upper respiratory tract. Persons with certain types of neurological disease such as multiple sclerosis should consult a physician prior to exposure. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system eyes respiratory system skin Contact may cause skin irritation with discomfort or rash.

Can irritate or burn eyes. Prolonged or repeated overexposure may cause any of the following: conjunctivitis dermatitis High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Mice that were force fed (gavage) showed teratogenic effects embryofetotoxicity and maternal toxicity. The no observed effect level was estimated to be 25g/50 kg (110 lb.) woman. Laboratory animals exposed to high airborne levels showed tissue changes in the nasal passages. Aspiration may occur during swallowing or vomiting, resulting in lung damage. May cause central nervous system depression with headache, stupor, uncoordinated or strange behavior, or unconsciousness.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

May cause eye irritation with discomfort, tearing, or blurred vision. May cause moderate eye burning.

Recurrent overexposure may result in liver and kidney injury. May cause irritation of the upper respiratory passages.

TOLUENE

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

May cause eye irritation with discomfort, tearing, or blurred vision. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed.

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

XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow cardiovascular system central nervous system kidneys liver lungs

Can be absorbed through the skin in harmful amounts.
Can irritate or burn eyes. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heartbeats.
Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

1, 6 HEXAMETHYLENE DIISOCYANATE

Repeated overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough or permanent lung sensitization. The following medical conditions may be aggravated by exposure: Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. Repeated or prolonged skin contact may cause any of the following: severe irritation burns skin sensitization

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Eye contact may cause any of the following: burns

2,4-PENTANEDIONE

2,4-pentanedione, a component of this product, is regulated by the U.S. EPA, under a significant new use rule. It is a violation of federal law to sell or use this product in consumer applications, including to private individuals, schools, and vocational schools. Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system, and the red blood cell forming system. No effect was seen at 100 ppm. The odor is disagreeable at a few ppm. Ingestion may result in gastric disturbances. Liquid or vapor causes irritation, experienced as stinging, excess blinking and tear production, with excess redness and swelling of the conjunctiva.

SECTION 4 - First Aid Measures

First Aid Procedures:

Inhalation:

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

Ingestion:

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

Skin or eye:

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

SECTION 5 - Firefighting Measures

Flash Point (Closed Cup)
Flammable limits

See Section 11 for exact values.

LFL 0.0 % UFL 13.1 %

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

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

Protective 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.

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SECTION 9 - Physical and Chemical Properties

Europeration Data	Clauses there Ether
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)	-9273°(C)
Gallon weight (lbs./gal)	7.24 - 11.55
Specific gravity	0.87 - 1.38
Percent volatile by volume	12.95 - 99.75
Percent volatile by weight	10.00 - 99.73
Percent solids by volume	0.25 - 87.05
Percent solids by weight	0.27 - 90.00

SECTION 10 - Stability and Reactivity

Stability:

Stable

Incompatibility (materials to avoid):

water, alcohols, amines

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)

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: 9.08 WT PCT SOLIDS: 74.96 VOL PCT SOLIDS: 69.70 SOLVENT DENSITY: 7.49 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: 9.08 WT PCT SOLIDS: 74.99 VOL PCT SOLIDS: 69.73 SOLVENT DENSITY: 7.49 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-511 Aliphatic Polyisocyanate Resin (39.0%), Aromatic Hydrocarbon-B (1.4%), Butyl Acetate (6.2%), Ethyl Acetate (13.2%), Ethylbenzene (0.7%*@), Propylene Glycol Monomethyl Ether Acetate (18.0%), Toluene (17.0%*@), Xylene (3-4%*@)

GAL WT: 8.26 WT PCT SOLIDS: 39.13 VOL PCT SOLIDS: 33.13 SOLVENT DENSITY: 7.52 VOC LE: 5.0 VOC AP: 5.0 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VG-6005 Aliphatic Polyisocyanate Resin (89.8%), Aromatic Hydrocarbon-B (3.2%), Butyl Acetate (5.0%), 1, 6 Hexamethylene Diisocyanate (0.2%*@), 1.2.4-Trimethyl Benzene (1-2%*)

GAL WT: 9.44 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 87.05 SOLVENT DENSITY: 7.29 VOC LE: 0.9 VOC AP: 0.9 FLASH POINT: 100°F – 141°F H: 3 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, 6 Hexamethylene Diisocyanate (0.2%*@), 1,2,4-Trimethyl Benzene (1-2%*)

GAL WT: 9.44 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 87.04 SOLVENT DENSITY: 7.29 VOC LE: 0.9 VOC AP: 0.9 FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VH-Y-691 Dibutyl Tin Dilaurate (1.6%), Ethyl Acetate (98.4%)
GAL WT: 7.49 WT PCT SOLIDS: 1.55 VOL PCT SOLIDS: 1.33
SOLVENT DENSITY: 7.47 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: YES

1189S 2,4-Pentanedione (99.7%)

GAL WT: 8.12 WT PCT SOLIDS: 0.27 VOL PCT SOLIDS: 0.25 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

389S Dibutyl Tin Dilaurate (1.0%), 2,4-Pentanedione (99.0%)
GAL WT: 8.13 WT PCT SOLIDS: 1.00 VOL PCT SOLIDS: 0.93
SOLVENT DENSITY: 8.12 VOC LE: 8.0 VOC AP: 8.0
FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

610P Acrylic Polymer-B (50.1%), Aromatic Hydrocarbon-B (9.7%), Butyl Acetate (7.2%), Ethylbenzene (0.9%*@), Ethylene Glycol Monobutyl Ether Acetate (4.6%*@), Methyl Ethyl Ketone (13.9%*@), Xylene (4-5%*@), 1,2,4-Trimethyl Benzene (2-7%*), Tinuvin 900 (1.2%)

GAL WT: 8.09 WT PCT SOLIDS: 52.82 VOL PCT SOLIDS: 46.32 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-B (50.6%), Butanedioic Acid, Dimethyl Ester (1.1%), Butyl Acetate (4.3%), Dibasic Ester (3.3%), Ethylene Glycol Monobutyl Ether Acetate (2.5%*@), Methyl Amyl Ketone (24.4%), Methyl Ethyl Ketone (2.9%*@), Substituted Benzotriazole (1.3%), Toluene (4.8%*@) GAL WT: 8.13 WT PCT SOLIDS: 53.38 VOL PCT SOLIDS: 46.99 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 Acrylic Polymer-B (36.0%), Amorphous Silica (21.4%), Butyl Acetate (3.1%), Dibasic Ester (2.4%), Ethylbenzene (0.1%*@), Ethylene Glycol Monobutyl Ether Acetate (1.8%*@), Methyl Amyl Ketone (19.0%), Methyl Ethyl Ketone (7.6%*@), Toluene (3.0%*@)

Ketone (7.6%*@), Toluene (3.0%*@)
GAL WT: 9.02 WT PCT SOLIDS: 59.49 VOL PCT SOLIDS: 48.24
SOLVENT DENSITY: 7.07 VOC LE: 3.7 VOC AP: 3.7
FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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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: 9.01 WT PCT SOLIDS: 74.99 VOL PCT SOLIDS: 69.95 SOLVENT DENSITY: 7.49 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

FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

731P Acrylic Polymer-A (8.4%), Hydrous Magnesium Silicate (49.9%), 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

VGF17761 Ethylbenzene (2.5-6.3%*@), Silicone Resin (18.7%), Xylene (75-79%*@)

GAL WT: 7.49 WT PCT SOLIDS: 18.75 VOL PCT SOLIDS: 15.32

SOLVENT DENSITY: 7.19 VOC LE: 6.1 VOC AP: 6.1

FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IA TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

RT002P Ethylbenzene (16.9%*@), Silicone Resin (1.5%), Xylene (75-89%*@) 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

RK-29000 Acetone (14.3%), Acrylic Polymer-B (35.3%), Amorphous Silica (16.4%), Butyl Acetate (3.0%), Ethylbenzene (0.1%*@), Methylamyl Ketone (18.3%), Synthetic Amorphous Silica (3.8%), Toluene (3.7%*@) GAL WT: 8.76 WT PCT SOLIDS: 57.53 VOL PCT SOLIDS: 45.48 SOLVENT DENSITY: 6.81 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

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.

* = 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: E. L. Taylor

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

SECTION	1 - Product and	Company	Identification
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Respirable O 5.0 mg/m³

Manufacturer:

E.I. DuPont de Nemours & Co.

DuPont Performance Coatings Wilmington, DE, 19898

92797-60-9

None

None

Respirable

AMORPHOUS SILICA-B

O 1.0 mg/m³

Telephone:

Product Information:

(800) 441-7515 (800) 441-3637

15 min STEL O 15.0 mg/m³

Medical Emergency: Transportation Emergency:

(800) 424-9300 (CHÉMTREC)

A 0.2 mg/m³ Respirable

Product: EPOXY PRIMERS, ENAMELS, AND ACTIVATORS

AMORPHOUS SILICA - FUMED 69012-64-2

O 2.0 mg/m³ TWAE

DOT Shipping Name:

See DOT addendum.

Respirable D 1.0 mg/m³

Hazardous Materials Information:

See Section 10.

Respirable Dus A 2.0 mg/m^3 Respirable Dus

SECTION 2 - Composition, Information on Ingredients

52011011 2 00111	posicion, zinonin	acion on angro					
INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS	AROMATIC HYDROCARBON-A	64742-94-5	10.0	D 100.0 ppm A None
ACRYLIC POLYMER-A	26010-51-5	None	A None O None	AROMATIC HYDROCARBON-B			O None
ACRYLIC POLYMER-B	42767-92-0	None	A None O None		64742-95-6	10.0 @ 25.0℃	D 50.0 ppm A None O None
ACRYLIC POLYMER-C	148969-95-3	None	A None O None	BARIUM SULFATE	7727-43-7	None	D 10.0 mg/m ³ A 10.0 mg/m ³ Total Dust O 15.0 mg/m ³
ALUMINUM	7429-90-5	None	A 10.0 mg/m³ O None				Total Dust O 5.0 mg/m ³ Respirable Dus
ALUMINUM HYDRATE	21645-51-2	None	A None O None	BENZYL ALCOHOL	100-51-6	0.1 @ 30.0°C	D 10.0 ppm A None O None
AMIDOAMINE RESIN-A	Not Avail	None	A None O None	BISPHENOL A/EPICHLOROHYDI	RIN POLYMER 25036-25-3	2.7 @ 23.9℃	A None O None
AMIDOAMINE RESIN-B	64754-99-0	None	A None O None	BISPHENOL-EPICHLOROHYDRII	N TYPE POLYME 25068-38-6	ER None	A None O None
AMIDOAMINE RESIN-C	68443-08-3	None	A None O None	BLACK IRON OXIDE	1317-61-9	None	A None O None
AMINE SALT OF POLYCARBOI	NIC ACID Not Avail	None	A None O None	BUTYL ACETATE	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm
AMORPHOUS SILICA-A	7631-86-9	None	A 1.0 mg/m ³ 15 min STEL O 15.0 mg/m ³ A 0.2 mg/m ³	CALCIUM CARBONATE	471-34-1	None	O 150.0 ppm A 10.0 mg/m ³ O .15.0 mg/m ³

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			A 5.0 mg/m ³	MONOBUTYLETHER			
			Respirable	HONOBOTTEETHER	111-76-2	0.6	D 5.0 ppm Skin
CALCIUM PHOSPHOSILICATE							A 20.0 ppm
	Not Avail	None	A None O None				Skin O 50.0 ppm
CARBON BLACK							Skin
GIRBON BENCK	1333-86-4	None	A 3.5 mg/m ³	GLYCIDYL ESTER OF TERT CA		2 5 6 242 005	A Nana
			O 3.5 mg/m ³ D 0.5 mg/m ³		26761-45-5	2.5 @ 212.0°F	A None O None
			8 & 12 hour TWA	GLYCIDYL ETHER OF ALKYL P	HENOL		
CUMENE					171263-24-1	None	A None O None
COLIENE	98-82-8	3.7	A 50.0 ppm	HADDON'S WYCNESTIM STITC	ATE		•
			O 50.0 ppm Skin	HYDROUS MAGNESIUM SILIC	14807-96-6	None	A 2.0 mg/m ³
DIACETONE ALCOHOL							Respirable D 0.5 mg/m ³
	123-42-2	1.1 @ 200.0°C	A None O None				8 & 12 hour TWA
DIATOMACEOUS EARTH							Respirable Dust O None
DIATONACEOUS EARTH	7631-86-9	None	A 1.0 mg/m ³	IDON OVIDE			O None
			15 min STEL O 15.0 mg/m³	IRON OXIDE	1309-37-1	None	A 5.0 mg/m ³
			A 0.2 mg/m ³ Respirable				O 10.0 mg/m ³
			O 5.0 mg/m ³ Respirable	ISOINDOLINONE PIGMENT	36888-99-0	None	A None
DITCORUTY VETONE			7.00p.100.0				O None
DIISOBUTYL KETONE	108-83-8	1.7	A 25.0 ppm	ISOPROPYL ALCOHOL			
			O 50.0 ppm		67-63 - 0	33.0	A 500.0 ppm 15 min STEL
DIOCTYL PHTHALATE							A 400.0 ppm O 400.0 ppm
	117-81-7	1.2	A 5.0 mg/m ³ D 1.0 mg/m ³				D 400.0 ppm 8 & 12 hour
			8 & 12 hour				TWA
			TWA O None	KAOLIN			
EPOXY HARDENER					1332-58-7	None	A 2.0 mg/m ³ O None
	1477-55-0	None	A 0.1 mg/m ³ TWA	MEDIUM MINERAL SPIRITS			
		•	Skin	PIEDION PINEIVE SI INTIS	64742-88-7	10.0	D 100.0 ppm
•			O 0.1 mg/m ³ TWA				A None O None
			Skin	METHYL AMYL KETONE			
ETHYL ACETATE	141-78-6	76.0	A 400.0 ppm	TETTI TETTI TETTI	110-43-0	2.1	A 50.0 ppm O 100.0 ppm
	141-70-0	70.0	O 400.0 ppm				O 100.0 ppm
ETHYLBENZENE				METHYL ETHYL KETONE	78-93-3	71.0 @ 0.0	A 300.0 ppm
	100-41-4	7.0	A 125.0 ppm 15 min STEL				15 min STEL D 300.0 ppm
			A 100.0 ppm O 100.0 ppm				15 min TWA A 200.0 ppm
			D 25.0 ppm				O 200.0 ppm
			8 & 12 hour TWA				D 200.0 ppm 8 & 12 hour
ETHYLENE GLYCOL							TWA

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1METHYL ISOBUTYL KETONE							PNOC
	108-10-1	15.0	A 75.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm	POLYAMIDE RESIN	8410-23-1	None	A None O None
MICA			О 100.0 ррш	PROPYLENE CARBONATE			O Mone
Mick	12001-26-2	None	A 3.0 mg/m ³ Respirable Mass		108-32-7	0.0	A None O None
MONOAZO PIGMENT			O None	PROPYLENE GLYCOL MONOMETHY	L ETHER ACET 108-65-6	ATE 3.7	D 10.0 ppm 12 hr TWA
16.16.26.12.12.1	12236-62-3	None ⁻	A 10.0 mg/m ³ O None				A None O None
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		4808-60-7	None	O 0.1 mg/m³ Respirable Dus A 50.0 ug/m³ Respirable Dus
			O 50.0 ppm CEIL Skin	QUINACRIDONE PIGMENT 1	.047-16-1	None	O 15.0 mg/m ³ Total Dust PNOR A 10.0 mg/m ³
NAPHTHALENE	91-20-3	1.0 @ 52.6°C	A 10.0 ppm O 10.0 ppm D 0.1 ppm 8 & 12 hour TWA				Inhalable Particulate A 3.0 mg/m³ Respirable Particulate
ODCANOCI AV				TETRAETHYLENEPENTAMINE	112 57 2	None	A Nama
ORGANOCLAY	68911-87-5	None	A None O None		112-57-2	None	A None O None
ORGANOPHILIC CLAY	Not Avail	None	A None O None	TITANIUM DIOXIDE 1:	3463-67-7	None	A 10.0 mg/m ³ D 5.0 mg/m ³ Respirable D 10.0 mg/m ³
PARA-NONYLPHENOL	84852-15-3	None	A None O None				Total Dust O 15.0 mg/m ³ Total Dust SiO2
PHENOLIC POLYMER	9003-35-4	None	A None	TITANIUM DIOXIDE/ALUMINUM HY		PHOUS STUTCA	
	3003 33 1	None	O None		Not Avail	None	A None O None
PHTHALOCYANINE BLUE PIGM	IENT 147-14-8	None	O 5.0 mg/m ³	TOFA, REACTION PRODUCTS W/TE	:DA		
	147-14-0	None	TWA Respirable PNOR	68		20.6 @ 21.0°C	A None O None
			O 15.0 mg/m³ Total Dust PNOR A 10.0 mg/m³ Inhalable Particulate PNOC A 3.0 mg/m³ Respirable Particulate		108-88-3	22.0	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA A 50.0 ppm Skin O 500.0 ppm

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			10 min TWA Maximum	Other Potential Health Effects in addition to those listed above:
				ACRYLIC POLYMER-B
TRADE SECRET	Blok Aunil	7 5 @ 31 005	A None	Skin contact may cause any of the following: mild irritation
	Not Avail	7.5 @ 21.0°F	A None O None	AMIDOAMINE RESIN-B
				Contact may cause skin irritation with discomfort or rash.
UREA FORMALDEHYDE RESIN				Causes eye corrosion and permanent injury.
	Not Avail	5.5	A None	
			O None	AMIDOAMINE RESIN-C
XYLENE				Contact may cause skin irritation with discomfort or rash. Contact may cause skin burns.
ATLENE	1330-20-7	9.0 @ 25.0°C	A 100.0 ppm	Causes eye corrosion and permanent injury.
	1330-20-7	3.0 @ 23.0 C	TWA	Causes severe eye irritation.
			A 150.0 ppm	
			15 min STEL	AROMATIC HYDROCARBON-A
			D 150.0 ppm	Laboratory studies with rats have shown that petroleum distillates
			15 min STEL	can cause kidney damage and kidney or liver tumors. These effects
			O 100.0 ppm D 100.0 ppm	were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a
			8 & 12 hour	significant increase of kidney damage or an increase in kidney or
			TWA	liver tumors.
ZINC OXIDE			13	AROMATIC HYDROCARBON-B
	1314-13-2	None	O 5.0 mg/m ³ Respirable	Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects
•			A 10.0 mg/m ³	were not seen in similar studies with guinea pigs, dogs, or monkeys.
			Total Dust	Several studies evaluating petroleum workers have not shown a
			O 15.0 mg/m ³	significant increase of kidney damage or an increase in kidney or
			Total Dust	liver tumors.
1 2 4 TRIMETHY DENIZENE				BENZYL ALCOHOL
1,2,4-TRIMETHYL BENZENE	95-63-6	7.0 @ 44.4°C	A 25.0 ppm	Material is irritating to mucous membranes and upper respiratory
	33-03-0	7.0 @ 17.7 C	O 25.0 ppm	tract. May cause central nervous system effects such as dizziness,
			O 25.0 pp	headache, nausea, and loss of consciousness. Contact may cause skin
2-ETHYLHEXYL GLYCIDYL ETHE	R			irritation with discomfort or rash. May cause eye irritation with
	Not Avail	None .	A None	discomfort, tearing, or blurred vision. May be a weak skin sensitizer.
			O None	Skin permeation can occur in amounts capable of producing the
2.4.6.534578.04.4444.04578.04	DUENO:			effects of systemic toxicity.
2,4,6-DIMETHYLAMINOMETHYL	Not Avail	0.0 @ 21.0℃	A None	BISPHENOL A/EPICHLOROHYDRIN POLYMER
	NUL AVAII	0.0 @ 21.0 C	O None	Has shown mutagenic activity in laboratory cell culture tests.
			2 110110	Repeated exposure may cause allergic skin rash, itching, swelling.
4,6-DIMETHYL-2-HEPTANONE				,
	19549-80-5	None	A None	BISPHENOL-EPICHLOROHYDRIN TYPE POLYMER
			O None	Repeated exposure may cause allergic skin rash, itching, swelling.
*A-ACCIU O-OCUA D-DuDoni	· C-Cunnline	Limita ava O havu	TMA unless	DUTYL ACCTATE

^{*}A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @25°C unless otherwise noted.

SECTION 3 - Hazards Information

Potential Health Effects:

Inhalation:

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

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

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

BUTYL ACETATE

May cause abnormal liver function.

The following medical conditions may be aggravated by exposure: respiratory system

May cause eye irritation with discomfort, tearing, or blurred vision. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

CARBON BLACK

Is an IARC, NTP or OSHA carcinogen.

CUMENE

Skin contact may cause any of the following: irritation discomfort rash

Eye contact may cause any of the following: blurred vision irritation discomfort tearing

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DIACETONE ALCOHOL

Recurrent overexposure may result in liver and kidney injury.

DIATOMACEOUS EARTH

Repeated and prolonged overexposure may lead to chronic lung disease.

DIISOBUTYL KETONE

The following medical conditions may be aggravated by exposure: asthma blood dermatitis

Contact may cause skin irritation with discomfort or rash. Repeated exposure may cause allergic skin rash, itching, swelling. This substance may cause damage to any of the following organs/systems: eyes kidneys liver Extremely high oral and inhalation doses in laboratory animals have

Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Liquid or vapor causes irritation, experienced as stinging, excess blinking and tear production, with excess redness and swelling of the conjunctiva.

DIOCTYL PHTHALATE

Cancer hazard based on tests with laboratory animals. Overexposure may create cancer risk

Tests in animals demonstrate reproductive toxicity.

EPOXY HARDENER

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

ETHYL ACETATE

Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs.

ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen.

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system kidneys liver lungs Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

ETHYLENE GLYCOL MONOBUTYLETHER

Can be absorbed through the skin in harmful amounts.
May cause injury to the kidneys, liver, blood and/or bone marrow.
Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

GLYCIDYL ESTER OF TERT CARBOXYLIC ACID

May cause eye irritation with discomfort, tearing, or blurred vision. High doses in laboratory animals have shown non-specific effects such as irritation, weight loss, moderate blood changes.

GLYCIDYL ETHER OF ALKYL PHENOL

Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision.

ISOPROPYL ALCOHOL

The following medical conditions may be aggravated by exposure:

dermatitis respiratory disease

Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact may cause skin irritation with discomfort or rash. Can be absorbed through the skin in harmful amounts. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver

Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Aspiration may occur during swallowing or vomiting, resulting in lung damage. May cause central nervous system depression with headache, stupor, uncoordinated or strange behavior, or unconsciousness. Irritating to the mouth, throat and stomach. May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, coughing and possibly accompanied by chest pain. Prolonged or repeated skin contact may cause drying, cracking, or irritation. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness. Swallowing significant amounts of substance could cause serious injury, even death.

MEDIUM MINERAL SPIRITS

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

METHYL AMYL KETONE

Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

Over exposure may cause eye, nose and throat irritation. Repeated or prolonged liquid contact may cause skin irritation and dermatitis. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Prolonged or repeated skin contact may cause drying, cracking, or irritation. Inhalation of high vapor concentrations may cause any of the following: drowsiness irritation

METHYL ETHYL KETONE

Material is irritating to mucous membranes and upper respiratory tract. Persons with certain types of neurological disease such as multiple sclerosis should consult a physician prior to exposure. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system eyes respiratory system skin Contact may cause skin irritation with discomfort or rash. Can irritate or burn eyes. Prolonged or repeated overexposure may cause any of the following: conjunctivitis dermatitis

High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Mice that were force fed (gavage) showed teratogenic effects embryofetotoxicity and maternal toxicity. The no observed effect level was estimated to be 25g/50 kg (110 lb.) woman. Laboratory animals exposed to high airborne levels showed tissue changes in the nasal passages. Aspiration may occur during swallowing or vomiting, resulting in lung damage. May cause central nervous system depression with headache, stupor, uncoordinated or strange behavior, or unconsciousness.

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METHYL ISOBUTYL KETONE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system lungs

Recurrent overexposure may result in liver and kidney injury.

MICA

Repeated and prolonged overexposure may lead to chronic lung disease.

N-BUTYL ALCOHOL

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

NAPHTHALENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: kidneys liver

Recurrent overexposure may result in liver and kidney injury.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

May cause eye irritation with discomfort, tearing, or blurred vision. May cause moderate eye burning.

Recurrent overexposure may result in liver and kidney injury. May cause irritation of the upper respiratory passages.

QUARTZ-CRYSTALLINE SILICA

Is an IARC, NTP or OSHA carcinogen.

Repeated overexposure to crystalline silica may lead to typical x-ray changes and chronic lung disease.

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

TETRAETHYLENEPENTAMINE

Causes eye corrosion and permanent injury.

Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning.

Inhalation overexposure may cause lung injury, fluid in the lung, and difficulty in breathing.

Inhalation of vapor may cause any of the following:

TITANIUM DIOXIDE

In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m 3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m 3 level are not relevant to the workplace. Repeated or prolonged skin contact may cause any of the following: dryness cracking of the skin

Eye contact may cause any of the following: blurred vision irritation discomfort tearing

Inhalation may cause any of the following: breathing difficulties coughing

Inhalation may cause irritation to any of the following: lungs nose throat

TOFA, REACTION PRODUCTS W/TEPA

Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision.

TOLUENE

Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Increased susceptibility to the effects of this material may b observed in people with preexisting

disease of any of the following: central nervous system kidneys liver respiratory system skin

May cause eye irritation with discomfort, tearing, or blurred vision. Can be absorbed through the skin in harmful amounts.

Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed.

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

UREA FORMALDEHYDE RESIN

This chemical is a formaldehyde donor. Formaldehyde is an IARC, NTP or OSHA carcinogen and has shown mutagenic activity in laboratory cell culture tests. Formaldehyde has produced tumors in the nasal passages of laboratory animals when exposed to high concentrations for a two year period. Epidemiology studies conducted to date have not found evidence of formaldehyde related tumor induction in humans.

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

XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow cardiovascular system central nervous system kidneys liver lungs

Can be absorbed through the skin in harmful amounts.

Can irritate or burn eyes. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats.

Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

ZINC OXIDE

May cause abnormal liver function.

2,4,6-DIMETHYLAMINOMETHYL PHENOL

Can be absorbed through the skin in harmful amounts.

SECTION 4 - First Aid Measures

First Aid Procedures:

Inhalation:

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

Ingestion:

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

Skin or eye:

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

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SECTION 5 - Firefighting Measures

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

LFL 0.0 % UFL 13.1 %

Extinguishing media: Universal aque

Universal aqueous film-forming foam, carbon dioxide, drychemical. 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. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) during spray application (or brush and roll application in poorly ventilated areas) and until all vapors and spray mist are exhausted. For mixing and brush and roll application in well ventilated areas or, if the product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) may be used until all vapors are exhausted. In addition, for spray application when product does not contain or is not mixed with an isocyanate activator/hardener, a particulate filter (NIOSH

TC-84A) is needed with the organic vapor cartridges until all vapors and spray mist are exhausted. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

Protective 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)	-9288°(C)
Gallon weight (lbs./gal)	7.69 - 13.94
Specific gravity	0.92 - 1.67
Percent volatile by volume	1.79 - 52.39
Percent volatile by weight	0.96 - 43.55
Percent solids by volume	47.61 - 98.21
Percent solids by weight	56.46 - 99.05

SECTION 10 - Stability and Reactivity

Stability:

Stable

Incompatibility (materials to avoid):

None reasonably foreseeable

Hazardous decomposition products:

 $\text{CO}, \text{CO}_2,$ 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)

1LB25P Amidoamine Resin-B (14.8%), Amorphous Silica-A (1.6%), Aromatic Hydrocarbon-B (9.9%), Calcium Phosphosilicate (5.1%), Glycidyl Ether Of Alkyl Phenol (11.4%), Hydrous Magnesium Silicate (2.8%), Mica (18.6%), Quartz-Crystalline Silica (1.0%), Titanium Dioxide (25.3%), 1,2,4-Trimethyl Benzene (2-7%*), 2-,4,6-Dimethylaminomethyl Phenol (1.6%)

GAL WT: 12.89 WT PCT SOLIDS: 83.97 VOL PCT SOLIDS: 71.37 SOLVENT DENSITY: 7.22 VOC LE: 2.1 VOC AP: 2.1

FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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2MB25P Amidoamine Resin-B (16.9%), Amorphous Silica-A (1.0%), Aromatic Hydrocarbon-B (11.0%), Calcium Phosphosilicate (6.1%), Cumene (0-1%*@), Glycidyl Ether Of Alkyl Phenol (13.0%), Hydrous Magnesium Silicate (3.3%), Mica

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

(23.1%), Quartz-Crystalline Silica (1.2%), Titanium Dioxide (14.2%), 1,2,4-Trimethyl Benzene (2-8%*), 2,4,6-Dimethylaminomethyl Phenol (1.9%) GAL WT: 11.89 WT PCT SOLIDS: 82.16 VOL PCT SOLIDS: 70.60 SOLVENT DENSITY: 7.22 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

→ 3DB25P Amidoamine Resin-B (18.9%), Aromatic Hydrocarbon-B (10.4%), Calcium Phosphosilicate (6.6%), Glycidyl Ether Of Alkyl Phenol (14.5%), Hydrous Magnesium Silicate (3.6%), Mica (26.6%), Quartz-Crystalline Silica (1.4%), Titanium Dioxide (7.5%), 1-,2,4-Trimethyl Benzene (2-7%*), 2,4,6-Dimethylaminomethyl Phenol (2.1%)

GAL WT: 11.47 WT PCT SOLIDS: 83.02 VOL PCT SOLIDS: 73.01 SOLVENT DENSITY: 7.22 VOC LE: 1.9 VOC AP: 1.9 FLASH POINT: 100°F -- 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

→ 4NB25P Amidoamine Resin-B (19.9%), Aromatic Hydrocarbon-B (12.6%), Calcium Phosphosilicate (6.9%), Cumene (0-1%*@), Glycidyl Ether Of Alkyl Phenol (15.3%), Hydrous Magnesium Silicate (3.8%), Mica (28.7%), Quartz-Crystalline Silica (1.5%), 1,2,4-Trimethyl Benzene (2-9%*), 2,4,6-Dimethylaminomethyl Phenol (2.2%)

GAL WT: 10.75 WT PCT SOLIDS: 79.61 VOL PCT SOLIDS: 69.62 SOLVENT DENSITY: 7.22 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-6AL25P Aluminum (24.9%*), Amidoamine Resin-B (19.1%), Aromatic Hydrocarbon-B (8.1%), Calcium Phosphosilicate (6.8%), Glycidyl Ether Of Alkyl Phenol (14.5%), Hydrous Magnesium Silicate (3.7%), Medium Mineral Spirits (13.4%), 1,2,4-Trimethyl Benzene (1-6%*), 2,4,6-Dimethylaminomethyl Phenol (2.0%)

Dimethylaminomethyl Phenol (2.0%)

GAL WT: 9.81 WT PCT SOLIDS: 72.46 VOL PCT SOLIDS: 60.37

SOLVENT DENSITY: 6.82 VOC LE: 2.7 VOC AP: 2.7

FLASH POINT: 100°F – 14°F H: 3 F: 2 R: 1 OSHA STORAGE: II

TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63225P Amidoamine Resin-B (13.6%), Amorphous Silica-A (1.5%), Aromatic Hydrocarbon-B (9.1%), Glycidyl Ether Of Alkyl Phenol (10.5%), Mica (17.2%), Quartz-Crystalline Silica (0.9%), Titanium Dioxide (23.4%), Zinc Oxide (15.2%*), 1,2,4-Trimethyl Benzene (1-7%*), 2,4,6-Dimethylaminomethyl Phenol (1.5%)

GAL WT: 13.54 WT PCT SOLIDS: 85.24 VOL PCT SOLIDS: 72.32 SOLVENT DENSITY: 7.22 VOC LE: 2.0 VOC AP: 2.0 FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63325P Amidoamine Resin-B (16.6%), Aromatic Hydrocarbon-B (10.8%), Calcium Phosphosilicate (6.0%), Carbon Black (0.2%), Cumene (0-1%*@), Glycidyl Ether Of Alkyl Phenol (12.8%), Hydrous Magnesium Silicate (3.3%), Mica (22.6%), Quartz-Crystalline Silica (1.2%), Titanium Dioxide (13.9%), 1,2,4-Trimethyl Benzene (2-8%*), 2,4,6-Dimethylaminomethyl Phenol (1.8%)

GAL WT: 11.90 WT PCT SOLIDS: 81.94 VOL PCT SOLIDS: 70.29 SOLVENT DENSITY: 7.24 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63525P Amidoamine Resin-B (14.6%), Amorphous Silica-A (1.6%), Aromatic Hydrocarbon-B (9.8%), Calcium Phosphosilicate (5.1%), Glycidyl Ether Of Alkyl Phenol (11.3%), Hydrous Magnesium Silicate (2.8%), Mica (18.5%), Quartz-Crystalline Silica (1.0%), Titanium Dioxide (25.1%), 1,2,4-Trimethyl Benzene (2-7%*), 2-,4,6-Dimethylaminomethyl Phenol (1.6%) GAL WT: 12.90 WT PCT SOLIDS: 83.90 VOL PCT SOLIDS: 71.24 SOLVENT DENSITY: 7.23 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100°F — 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63725P Amidoamine Resin-B (14.7%), Amorphous Silica-A (1.6%), Aromatic Hydrocarbon-B (9.8%), Calcium Phosphosilicate (5.1%), Glycidyl Ether Of Alkyl Phenol (11.3%), Hydrous Magnesium Silicate (2.8%), Mica (18.6%), Quartz-Crystalline Silica (1.0%), Titanium Dioxide (25.2%), 1,2,4-Trimethyl Benzene (2-7%*), 2-,4,6-Dimethylaminomethyl Phenol (1.6%) GAL WT: 12.89 WT PCT SOLIDS: 83.92 VOL PCT SOLIDS: 71.29 SOLVENT DENSITY: 7.23 VOC LE: 2.1 VOC AP: 2.1 FLASH POINT: 100°F — 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-71125P Amidoamine Resin-B (13.1%), Aromatic Hydrocarbon-B (8.9%), Barium Sulfate (26.8%), Calcium Phosphosilicate (5.6%), Glycidyl Ether Of Alkyl Phenol (10.1%), Hydrous Magnesium Silicate (3.1%), Iron Oxide (8.9%), Mica (13.8%), Quartz-Crystalline Silica (1.3%), 1,2,4-Trimethyl Benzene (1-6%*), 2,4,6-Dimethylaminomethyl Phenol (1.4%) GAL WT: 13.94 WT PCT SOLIDS: 85.31 VOL PCT SOLIDS: 71.69 SOLVENT DENSITY: 7.24 VOC LE: 2.0 VOC AP: 2.0 FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-333 Amidoamine Resin-B (8.5%), Barium Sulfate (24.7%), Calcium Phosphosilicate (6.1%), Diisobutyl Ketone (6.0%), Ethylene Glycol Monobutylether (8.4%*@), Glycidyl Ether Of Alkyl Phenol (6.5%), Hydrous Magnesium Silicate(12.9%), Kaolin (10.9%), Methyl Amyl Ketone (5.2%), Methyl Ethyl Ketone (5.8%*@), 2,4-,6-Dimethylaminomethyl Phenol (1.2%), 4,6-Dimethyl-2-Heptanone (1.5%)

GAL WT: 12.33 WT PCT SOLIDS: 72.77 VOL PCT SOLIDS: 51.47 SOLVENT DENSITY: 6.82 VOC LE: 3.4 VOC AP: 3.4 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

1LB26P Aluminum Hydrate (1.3%), Amorphous Silica-A (2.1%), Aromatic Hydrocarbon-B (5.6%), Barium Sulfate (6.8%), Bisphenol-Epichlorohydrin Type Polymer (30.4%), Diacetone Alcohol (7.0%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (4.1%), Titanium Dioxide (34.0%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*)

GAL WT: 13.49 WT PCT SOLIDS: 86.85 VOL PCT SOLIDS: 65.18 SOLVENT DENSITY: 7.25 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

2MB26P Amorphous Silica-A (1.1%), Aromatic Hydrocarbon-B (5.1%), Barium Sulfate (15.4%), Bisphenol-Epichlorohydrin Type Polymer (33.3%), Diacetone Alcohol (7.9%), Ethylbenzene (0.2%*@), Ethylene Glycol Monobutylether (1.4%*@), Hydrous Magnesium Silicate (9.4%), Titanium Dioxide (17.8%), Xylene (1-2%*@), 1,2-,4-Trimethyl Benzene (1-4%*) GAL WT: 12.91 WT PCT SOLIDS: 79.96 VOL PCT SOLIDS: 65.25 SOLVENT DENSITY: 7.29 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II

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TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

3DB26P Aromatic Hydrocarbon-B (4.3%), Barium Sulfate (20.7%), Bisphenol Epichlorohydrin Type Polymer (34.2%), Diacetone Alcohol (8.6%), Ethylbenzene (0.2%*@), Ethylene Glycol Monobutylether (1.9%*@), Hydrous Magnesium Silicate (12.6%), Titanium Dioxide (9.2%), Xylene (1-2%*@), 1,2,4-Trimethyl Benzene (1-3%*)

GAL WT: 12.78 WT PCT SOLIDS: 80.02 VOL PCT SOLIDS: 65.81 SOLVENT DENSITY: 7.31 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

4NB26P Aromatic Hydrocarbon-B (2.8%), Barium Sulfate (25.9%), Bisphenol-Epichlorohydrin Type Polymer (36.8%), Diacetone Alcohol (9.3%), Ethylbenzene (0.2%*@), Ethylene Glycol Monobutylether (2.3%*@), Hydrous Magnesium Silicate (15.8%), Xylene (1-2%*@), 1,2,4-Trimethyl Benzene (0-2%*)

GAL WT: 12.64 WT PCT SOLIDS: 81.17 VOL PCT SOLIDS: 68.30 SOLVENT DENSITY: 7.34 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63226P Aluminum Hydrate (1.3%), Amorphous Silica-A (2.1%), Aromatic Hydrocarbon-B (5.9%), Barium Sulfate (6.8%), Bisphenol-Epichlorohydrin Type Polymer (30.0%), Diacetone Alcohol (7.0%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (4.1%), Titanium Dioxide (33.9%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*) GAL WT: 13.44 WT PCT SOLIDS: 80.35 VOL PCT SOLIDS: 64.37 SOLVENT DENSITY: 7.25 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63326P Aluminum Hydrate (1.3%), Amorphous Silica-A (2.0%), Aromatic Hydrocarbon-B (5.4%), Barium Sulfate (7.2%), Bisphenol-Epichlorohydrin Type Polymer (29.4%), Carbon Black (0.2%), Diacetone Alcohol (6.8%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (4.0%), Titanium Dioxide (33.0%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*)

GAL WT: 13.46 WT PCT SOLIDS: 80.56 VOL PCT SOLIDS: 64.80 SOLVENT DENSITY: 7.28 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63526P Aluminum Hydrate (1.3%), Amorphous Silica-A (2.1%), Aromatic Hydrocarbon-B (5.8%), Barium Sulfate (6.7%), Bisphenol-Epichlorohydrin Type Polymer (30.8%), Diacetone Alcohol (6.9%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (4.1%), Titanium Dioxide (33.3%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*) GAL WT: 13.38 WT PCT SOLIDS: 80.63 VOL PCT SOLIDS: 65.04 SOLVENT DENSITY: 7.26 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63726P Aluminum Hydrate (1.3%), Amorphous Silica-A (2.0%), Aromatic Hydrocarbon-B (5.7%), Barium Sulfate (6.7%), Bisphenol-Epichlorohydrin Type Polymer (31.2%), Diacetone Alcohol (6.8%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (4.0%), Titanium Dioxide (33.0%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*) GAL WT: 13.34 WT PCT SOLIDS: 80.71 VOL PCT SOLIDS: 65.32 SOLVENT DENSITY: 7.26 VOC LE: 2.6 VOC AP: 2.6

FLASH POINT: 100°F — 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-64026P Aromatic Hydrocarbon-B (6.0%), Barium Sulfate (34.1%), Bisphenol-Epichlorohydrin Type Polymer (28.6%), Carbon Black (1.0%), Diacetone Alcohol (7.2%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (2.7%), Kaolin (13.3%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-4%*)

GAL WT: 13.59 WT PCT SOLIDS: 81.04 VOL PCT SOLIDS: 65.13 SOLVENT DENSITY: 7.21 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-66226P Acrylic Polymer-C (1.2%), Aromatic Hydrocarbon-B (6.7%), Barium Sulfate (10.5%), Bisphenol-Epichlorohydrin Type Polymer (36.4%), Diacetone Alcohol (8.4%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (6.4%), Isoindolinone Pigment (10.1%), Monoazo Pigment (5.7%), Titanium Dioxide (4.7%), Xylene (1-2%*@), 1,2,4-Trimethyl Benzene (1-5%**)

GAL WT: 11.21 WT PCT SOLIDS: 76.70 VOL PCT SOLIDS: 64.75 SOLVENT DENSITY: 7.20 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-66326P Acrylic Polymer-C (2.6%), Aromatic Hydrocarbon-B (7.2%), Bisphenol-Epichlorohydrin Type Polymer (39.5%), Butyl Acetate (1.3%), Diacetone Alcohol (7.5%), Ethylbenzene (0.2%*@), Iron Oxide (1.5%), Monoazo Pigment (13.8%), Propylene Carbonate (1.3%), Titanium Dioxide (15.2%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-5%*) GAL WT: 10.64 WT PCT SOLIDS: 75.41 VOL PCT SOLIDS: 65.23 SOLVENT DENSITY: 7.47 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-66426P Acrylic Polymer-C (1.4%), Aromatic Hydrocarbon-B (6.6%), Barium Sulfate (10.4%), Bisphenol-Epichlorohydrin Type Polymer (39.5%), Diacetone Alcohol (9.5%), Ethylbenzene (0.2%*@), Hydrous Magnesium Silicate (6.3%), Monoazo Pigment (7.2%), Quinacridone Pigment (8.1%), Titanium Dioxide (1.3%), Xylene (1-2%*@), 1,2,4-Trimethyl Benzene (1-5%*)

GAL WT: 10.61 WT PCT SOLIDS: 75.49 VOL PCT SOLIDS: 65.07 SOLVENT DENSITY: 7.28 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-66526P Aromatic Hydrocarbon-B (3.0%), Barium Sulfate (19.4%), Bisphenol A/Epichlorohydrin Polymer (3.1%), Bisphenol-Epichlorohydrin Type Polymer (29.2%), Diacetone Alcohol (8.1%), Ethyl Acetate (2.2%), Ethylbenzene (0.2%*@), Ethylene Glycol Monobutylether (1.7%*@), Hydrous Magnesium Silicate (11.8%), Isopropyl Alcohol (2.2%), Phthalocyanine Blue Pigment (1.3%), Titanium Dioxide (8.6%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (0-2%*)

GAL WT: 12.33 WT PCT SOLIDS: 76.72 VOL PCT SOLIDS: 61.10 SOLVENT DENSITY: 7.25 VOC LE: 2.9 VOC AP: 2.9 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-66626P Aromatic Hydrocarbon-B (4.1%), Barium Sulfate (19.1%), Bisphenol-Epichlorohydrin Type Polymer (34.6%), Diacetone Alcohol (9.1%), Ethylbenzene (0.1-0.2%*@), Ethylene Glycol Monobutylether (1.7%*@),

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Hydrous Magnesium Silicate (11.7%), Iron Oxide (1.1%), Titanium Dioxide/Aluminum Hydrate/Amorphous Silica (9.3%), Xylene (1-1%*@), 1,2,4-Trimethyl Benzene (1-3%*)

GAL WT: 12.60 WT PCT SOLIDS: 79.64 VOL PCT SOLIDS: 65.88 SOLVENT DENSITY: 7.53 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-6AL90P Aluminum (4.6%*), Amorphous Silica-A (1.5%), Bisphenol-Epichlorohydrin Type Polymer (48.4%), Dioctyl Phthalate (7.7%*), Ethylbenzene (1.0%*@), Medium Mineral Spirits (2.5%), Organophilic Clay (3.8%), Quartz-Crystalline Silica (24.9%), Xylene (4-5%*@) GAL WT: 11.11 WTCT SOLIDS: 90.83 VOL PCT SOLIDS: 85.24 SOLVENT DENSITY: 6.91 VOC LE: 1.0 VOC AP: 1.0 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-64090P Bisphenol-Epichlorohydrin Type Polymer (44.1%), Black Iron Oxide (6.9%), Dioctyl Phthalate (7.0%*), Ethylbenzene (0.8%*@), Organophilic Clay (3.8%), Quartz-Crystalline Silica (32.2%), Xylene (3-4%*@)

GAL WT: 12.20 WT PCT SOLIDS: 93.97 VOL PCT SOLIDS: 89.61 SOLVENT DENSITY: 7.07 VOC LE: 0.7 VOC AP: 0.7 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63290P Bisphenol-Epichlorohydrin Type Polymer (43.3%), Dioctyl Phthalate (6.9%*), Ethylbenzene (0.8%*@), Organophilic Clay (3.8%), Quartz-Crystalline Silica (19.3%), Titanium Dioxide (19.5%), Xylene (3-4%*@)

GAL WT: 12.56 WT PCT SOLIDS: 93.95 VOL PCT SOLIDS: 89.27 SOLVENT DENSITY: 7.09 VOC LE: 0.8 VOC AP: 0.8 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63790P Bisphenol-Epichlorohydrin Type Polymer (43.1%), Dioctyl Phthalate (6.9%*), Ethylbenzene (0.8%*@), Organophilic Clay (3.8%), Quartz-Crystalline Silica (19.2%), Titanium Dioxide (19.5%), Xylene (3-4%*@)

GAL WT: 12.55 WT PCT SOLIDS: 93.97 VOL PCT SOLIDS: 89.31 SOLVENT DENSITY: 7.09 VOC LE: 0.8 VOC AP: 0.8 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-71190P Bisphenol-Epichlorohydrin Type Polymer (43.6%), Dioctyl Phthalate (7.0%*), Ethylbenzene (0.8%*@), Iron Oxide (10.3%), Organophilic Clay (3.7%), Quartz-Crystalline Silica (29.3%), Xylene (4-4%*@)

GAL WT: 12.36 WT PCT SOLIDS: 93.90 VOL PCT SOLIDS: 89.37 SOLVENT DENSITY: 7.09 VOC LE: 0.7 VOC AP: 0.7 FLASH POINT: $100^{\circ}F - 141^{\circ}F$ H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

LF-63590P Bisphenol-Epichlorohydrin Type Polymer (43.0%), Dioctyl Phthalate (6.9%*), Ethylbenzene (0.8%*@), Organophilic Clay (3.8%), Quartz-Crystalline Silica (19.2%), Titanium Dioxide (19.4%), Xylene (3-4%*@)

GAL WT: 12.57 WT PCT SOLIDS: 93.99 VOL PCT SOLIDS: 89.33 SOLVENT DENSITY: 7.09 VOC LE: 0.8 VOC AP: 0.8 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

823Y67632 Barium Sulfate (9.7%), Bisphenol A/Epichlorohydrin Polymer (25.3%), Ethyl Acetate (6.6%), Hydrous Magnesium Silicate (13.3%), Isopropyl Alcohol (3.5%), N-Butyl Alcohol (5.6%*), Propylene Glycol Monomethyl Ether Acetate (10.3%), Titanium Dioxide (17.0%), Toluene (4.9%*@)

GAL WT: 11.95 WT PCT SOLIDS: 68.01 VOL PCT SOLIDS: 47.93 SOLVENT DENSITY: 7.34 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

823Y67633 Barium Sulfate (9.3%), Bisphenol A/Epichlorohydrin Polymer (25.9%), Carbon Black (0.2%), Ethyl Acetate (6.9%), Hydrous Magnesium Silicate (12.7%), Isopropyl Alcohol (3.7%), N-Butyl Alcohol (5.7%*), Propylene Glycol Monomethyl Ether Acetate (10.0%), Titanium Dioxide (16.1%), Toluene (5.1%*@)

GAL WT: 11.79 WT PCT SOLIDS: 67.44 VOL PCT SOLIDS: 47.61 SOLVENT DENSITY: 7.32 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

823Y67635 Barium Sulfate (9.6%), Bisphenol A/Epichlorohydrin Polymer (25.3%), Ethyl Acetate (6.8%), Hydrous Magnesium Silicate (13.2%), Isopropyl Alcohol (3.5%), N-Butyl Alcohol (5.6%*), Propylene Glycol Monomethyl Ether Acetate (10.2%), Titanium Dioxide (16.8%), Toluene (4.9%*@)

GAL WT: 11.93 WT PCT SOLIDS: 67.85 VOL PCT SOLIDS: 47.72 SOLVENT DENSITY: 7.33 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

823Y67637 Barium Sulfate (9.7%), Bisphenol A/Epichlorohydrin Polymer (25.3%), Ethyl Acetate (6.9%), Hydrous Magnesium Silicate (13.2%), Isopropyl Alcohol (3.5%), N-Butyl Alcohol (5.6%*), Propylene Glycol Monomethyl Ether Acetate (10.2%), Titanium Dioxide (16.8%), Toluene (4.9%*®)

GAL WT: 11.91 WT PCT SOLIDS: 67.74 VOL PCT SOLIDS: 47.64 SOLVENT DENSITY: 7.33 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VF-333 Barium Sulfate (12.0%), Bisphenol-Epichlorohydrin Type Polymer (19.4%), Diisobutyl Ketone (4.3%), Ethyl Acetate (3.4%), Ethylene Glycol Monobutylether (12.4%*@), Hydrous Magnesium Silicate (10.4%), Kaolin (11.8%), Methyl Ethyl Ketone (2.8%*@), Phenolic Polymer (8.0%), Titanium Dioxide (8.6%), Urea Formaldehyde Resin (1.1%), 4,6-Dimethyl-2-Heptanone (1.1%)

GAL WT: 12.03 WT PCT SOLIDS: 74.67 VOL PCT SOLIDS: 57.33 SOLVENT DENSITY: 7.01 VOC LE: 3.0 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: YES

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VF-455 Barium Sulfate (11.7%), Bisphenol-Epichlorohydrin Type Polymer (19.1%), Ethyl Acetate (3.2%), Hydrous Magnesium Silicate (9.5%), Kaolin (11.6%), Methyl Ethyl Ketone(11.0%*@), Phenolic Polymer(7.5%), Titanium Dioxide (8.4%), Toluene (11.8%*@), Urea Formaldehyde Resin (1.1%) GAL WT: 11.63 WT PCT SOLIDS: 72.36 VOL PCT SOLIDS: 53.87 SOLVENT DENSITY: 6.86 VOC LE: 3.2 VOC AP: 3.2 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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

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

VF-026 Acrylic Polymer-A (10.2%), Amidoamine Resin-C (20.9%), Amine Salt Of Polycarbonic Acid (1.0%), Amorphous Silica - Fumed (2.0%), Aromatic Hydrocarbon-A (1.0%), Aromatic Hydrocarbon-B (10.4%), Calcium Phosphosilicate (3.7%), Glycidyl Ester Of Tert Carboxylic Acid (10.7%), Hydrous Magnesium Silicate (5.6%), Kaolin (3.8%), Methyl Ethyl Ketone (9.0%*@), Mica (9.4%), N-Butyl Alcohol (3.1%*), Quartz-Crystalline Silica (0.5%), 1-2,4-Trimethyl Benzene (2-7%*), 2,4,6-Dimethylaminomethyl Phenol (2.2%)

GAL WT: 9.27 WT PCT SOLIDS: 70.45 VOL PCT SOLIDS: 60.91 SOLVENT DENSITY: 7.00 VOC LE: 2.7 VOC AP: 2.7 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VG-026 Acrylic Polymer-A (25.6%), Amidoamine Resin-C (23.0%), Aromatic Hydrocarbon-B (11.3%), Cumene (0-1%*@), Glycidyl Ester Of Tert Carboxylic Acid (11.8%), Methyl Ethyl Ketone (11.6%*@), N-Butyl Alcohol (7.7%*), 1,2,4-Trimethyl Benzene (2-8%*), 2,-4,6-Dimethylaminomethyl Phenol (2.4%)

GAL WT: 7.86 WT PCT SOLIDS: 62.79 VOL PCT SOLIDS: 58.04 SOLVENT DENSITY: 6.94 VOC LE: 2.9 VOC AP: 2.9 FLASH POINT: 20°F to below 73°F H: 3 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-450 Amorphous Silica-B (1.1%), Bisphenol-Epichlorohydrin Type Polymer (24.7%), Calcium Carbonate (6.3%), Hydrous Magnesium Silicate (26.0%), Methyl Isobutyl Ketone (9.9%*@), Organoclay (2.1%), Quartz-Crystalline Silica (2.7%), Titanium Dioxide (8.2%), Toluene (9.2%*@), Xylene (8.2%*@)

GAL WT: 11.88 WT PCT SOLIDS: 72.49 VOL PCT SOLIDS: 53.38 SOLVENT DENSITY: 7.01 VOC LE: 3.3 VOC AP: 3.2 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-451 Amorphous Silica-B (1.1%), Bisphenol-Epichlorohydrin Type Polymer (24.7%), Calcium Carbonate (6.3%), Hydrous Magnesium Silicate (26.0%), Methyl Isobutyl Ketone (9.9%*@), Organoclay (2.1%), Quartz-Crystalline Silica (2.7%), Titanium Dioxide (8.2%), Toluene (9.2%*@), Xylene (8.2%*@)

GAL WT: 11.88 WT PCT SOLIDS: 72.49 VOL PCT SOLIDS: 53.38 SOLVENT DENSITY: 7.01 VOC LE: 3.3 VOC AP: 3.2 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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

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

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

FG-090 Benzyl Alcohol (4.4%), Epoxy Hardener (2.0%), Ethylbenzene (0.2%*@), Organophilic Clay (4.0%), Quartz-Crystalline Silica (44.5%), Tetraethylenepentamine (5.7%), Tofa, Reaction Products W/Tepa (32.6%), Trade Secret (3.4%), 2,4,6-Dimethylaminomethyl Phenol (2.4%) GAL WT: 11.51 WT PCT SOLIDS: 94.67 VOL PCT SOLIDS: 92.67 SOLVENT DENSITY: 8.39 VOC LE: 0.6 VOC AP: 0.6 FLASH POINT: 100°F – 141°F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

VF-335 Barium Sulfate (11.9%), Bisphenol-Epichlorohydrin Type Polymer (19.2%), Carbon Black (0.1%), Ethyl Acetate (3.1%), Hydrous Magnesium Silicate (10.3%), Kaolin (11.7%), Methyl Ethyl Ketone (8.6%*@), Phenolic Polymer (7.9%), Titanium Dioxide (8.5%), Toluene (11.7%*@), Urea Formaldehyde Resin (1.1%)

GAL WT: 11.85 WT PCT SOLIDS: 74.30 VOL PCT SOLIDS: 56.47 SOLVENT DENSITY: 6.88 VOC LE: 3.0 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: YES

FG-334 Acrylic Polymer-B (1.0%), Barium Sulfate (11.5%), Bisphenol Epichlorohydrin Type Polymer (18.6%), Diisobutyl Ketone (4.2%), Ethyl Acetate (3.3%), Ethylene Glycol Monobutylether (11.9%*@), Hydrous Magnesium Silicate (9.9%), Kaolin (11.3%), Methyl Amyl Ketone (1.6%), Methyl Ethyl Ketone (2.7%*@), Monoazo Pigment (1.4%), Phenolic Polymer (7.7%), Titanium Dioxide/Aluminum Hydrate/Amorphous Silica (9.0%), Urea Formaldehyde Resin (1.1%), 4,6-Dimethyl-2-Heptanone (1.0%) GAL WT: 11.85 WT PCT SOLIDS: 74.05 VOL PCT SOLIDS: 56.99 SOLVENT DENSITY: 7.15 VOC LE: 3.1 VOC AP: 3.1 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IA TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

525-A8603 Aromatic Hydrocarbon-A (22.5%), Bisphenol-Epichlorohydrin Type Polymer (48.8%), Diatomaceous Earth (5.7%), Ethylbenzene (0.8%*@), Hydrous Magnesium Silicate (9.2%), Naphthalene (1-3%*@), Quartz-Crystalline Silica (8.6%), 1,2,4-Trimethyl Benzene (0-3%*) GAL WT: 10.11 WT PCT SOLIDS: 73.12 VOL PCT SOLIDS: 63.22 SOLVENT DENSITY: 7.38 VOC LE: 2.7 VOC AP: 2.7

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FLASH POINT: 100°F - 141°F H: 3 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-B8603 Amidoamine Resin-A (1.7%*), Ethylbenzene (0.7%*@), Hydrous Magnesium Silicate (33.8%), Iron Oxide (1.6%), N-Butyl Alcohol (24.9%*), Polyamide Resin (16.4%), Quartz-Crystalline Silica (10.4%), Titanium Dioxide (7.4%)

GAL WT: 11.91 WT PCT SOLIDS: 73.65 VOL PCT SOLIDS: 53.64 SOLVENT DENSITY: 6.74 VOC LE: 3.1 VOC AP: 3.1 FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

525-A8601 Aromatic Hydrocarbon-A (19.3%), Bisphenol-Epichlorohydrin Type Polymer (51.0%), Ethylbenzene (0.8%*@), Hydrous Magnesium Silicate (24.5%), Naphthalene (1-2%*@), 1,2,4-Trimethyl Benzene (0-2%*) GAL WT: 10.45 WT PCT SOLIDS: 76.83 VOL PCT SOLIDS: 67.22 SOLVENT DENSITY: 7.38 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

525-B8601 Aluminum Hydrate (1.8%), Amidoamine Resin-A (1.8%*), Ethylbenzene (0.6%*@), Hydrous Magnesium Silicate (8.1%), N-Butyl Alcohol (25.8%*), Polyamide Resin (16.4%), Quartz-Crystalline-Silica (5.7%), Titanium Dioxide (37.5%)

GAL WT: 12.46 WT PCT SOLIDS: 72.83 VOL PCT SOLIDS: 50.03 SOLVENT DENSITY: 6.74 VOC LE: 3.4 VOC AP: 3.4 FLASH POINT: 73°F to below 100°F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

6AL90P Aluminum (4.6%*), Amorphous Silica-A (1.5%), Bisphenol-Epichlorohydrin Type Polymer (48.4%), Dioctyl Phthalate (7.7%*), Ethylbenzene (1.0%*@), Medium Mineral Spirits (2.5%), Organophilic Clay (3.8%), Quartz-Crystalline Silica (24.9%), Xylene (4-5%*@) GAL WT: 11.11 WTPCT SOLIDS: 90.83 VOL PCT SOLIDS: 85.24 SOLVENT DENSITY: 6.91 VOC LE: 1.0 VOC AP: 1.0 FLASH POINT: 100°F – 141°F H: 2 F: 2 R: 1 OSHA STORAGE: II TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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: E. L. Taylor

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.
* = Section 313 Supplier Notification: These chemicals are subject to

* = 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

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DuPont Performance Coatings MATERIAL SAFETY DATA SHEET THINNERS AND REDUCERS

Manufacturus Disputation									O None
Manufacturie: DLipoth Performance Coloring Sulfining Touries, 1989 1119-40-0 1119	SECTI	ON 1 - Prod	uct and Com	pany Identificat	ion	DIMETHYL CLUTADATE			
Medical Emergency: 1800 341-337 141-78-6 75.0 2 4 00.0 ppm 7 ransport 15 min STEL 100-41-4 7.0 4 125.0 ppm 15 min STEL 100-41-4 7.0 4 125.0 ppm 15 min STEL 100-41-4 7.0 15 min STEL 15 m	Manufacturer:	DuPont Per	formance Coat			DIMETHIC GLOTAKATE	1119-40-0	0.2	A None
THINNERS AND REDUCES 100-41-4 7.0 125.0 ppm 15 min STEL 100-41-4 100.0 ppm 15 min STEL 100.0 ppm 15 min STEL 100.0 ppm 15 min STEL 100.0 ppm 10 25.0 ppm 1	Telephone:	Medical Em	ergency:	(800) 441-3 y: (800) 424-9	3637 9300	ETHYL ACETATE	141-78-6	76.0	
Mazardous Materials Information: Section 10. Section	Product	THINNER	S AND REDU	CERS	•	ETHYLBENZENE	100-41-4	7.0	
Aceton Section Secti	DOT Shipping Nam	e:	See	DOT addendum.					A 100.0 ppm
TWA	Hazardous Material	ls Information	: See	Section 10.					D 25.0 ppm
ACETONE ACETON ACETONE ACETONE ACETONE ACETONE ACETONE ACETONE ACET	SECTION	2 - Compos	sition, Inform	nation on Ingre	dients				TWA
15 min STEL		NTS	CAS#			ETHYLENE GLYCOL MONOBUT			Skin
AROMATIC HYDROCARBON-A 64742-94-5 10.0 10.0 pm A None O None 64742-95-6 10.0 @ 25.0°C None 64742-95-6 10.0 @ 25.0°C None 64742-95-6 10.0 @ 25.0°C None 15 min STEL A 150.0 ppm O None 15 min STEL A 150.0 ppm O None CUMENE CYCLOHEXANE 110-82-7 100.0@60.0°C A None O None D 10.0 ppm O 100.0 ppm O 50.0 ppm Skir METHYL ETHYL KETONE O None TWA D 100.0 ppm O 200.0 ppm O 15 min STEL D 300.0 ppm O None CYCLOHEXANE D 100.0@60.0°C A None O None Skir METHYL ETHYL KETONE O None TWA METHYL ETHYL KETONE O None D 200.0 ppm O 200.0 ppm D 200.0 ppm			67-64-1	180.0@68.0°F ·	15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour	ETHYLENE GLYCOL MONOBUT		0.6	D 5.0 ppm Skin A 20.0 ppm Skin
AROMATIC HYDROCARBON-B AROMAN HORD AROMATIC HYDROCARBON-B AROMATIC HYDROCARBON-B AROMATIC HYDROCARBON-B AROMATIC HYDROCARBON-B AROMATIC HYDROCARBON-B AROMAN HORD AROMATIC HYDROCARBON-B AROMAN HORD AROMATIC HYDROCARBON-B AROMATIC HYDROCARBON-B AROMAN HORD AROMAN HORD AROMAN HYDROCARBON-B AROMAN	AROMATIC HYDRO	CARBON-A		10.0	D 400 0				
BUTANEDIOIC ACID, DIMETHYL ESTER 106-65-0 None D 10.0 mg/m² A None O None None D 10.0 mg/m² A None D 10.0 mg/m² A None O None None D 10.0 mg/m² A None D 10.0 mg/m² A None D 400.0 ppm A None D 400.0 ppm B & 12 hour TWA BUTYL ACETATE 123-86-4 10.0 A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm O 150.0 ppm O 150.0 ppm O 150.0 ppm A None O None D 100.0 ppm A None O None D 15 min STEL D 300.0 ppm Skir D 300.0 ppm Skir D 300.0 ppm D 200.0 ppm D 2			64742-94-5	10.0	A None	HEXANEDIOIC ACID, DIMETHY		None	A None
BUTYL ACETATE 123-86-4 123-86-4 10.0 A 200.0 ppm o 150.0 ppm o	AROMATIC HYDRO	CARBON-B	64742-95-6	10.0 @ 25.0°C	A None	ISOPROPYL ALCOHOL	67-63-0	33.0	A 500.0 ppm
123-86-4 10.0 A 200.0 ppm 15 min STEL A 150.0 ppm 0 150.0 ppm 0 150.0 ppm 64742-88-7 1.0 D 100.0 ppm A None 0 None CUMENE 98-82-8 3.7 A 50.0 ppm Skin 5 min STEL D 300.0 ppm 15 min STEL	BUTANEDIOIC ACI	D, DIMETHYL		None	A None				A 400.0 ppm O 400.0 ppm D 400.0 ppm 8 & 12 hour
CUMENE 98-82-8 3.7 A 50.0 ppm O 50.0 ppm O 50.0 ppm Skin CYCLOHEXANE 110-82-7 100.0@60.0°C A None O None 110-82-7 100.0@60.0°C O None	BUTYL ACETATE		123-86-4	10.0	15 min STEL A 150.0 ppm	MEDIUM MINERAL SPIRITS	64742-88-7	1.0	
CYCLOHEXANE 110-82-7 100.0@60.0°C A None O None D 300.0 ppm 15 min TWA A 200.0 ppm O 200.0 ppm D 200.0 ppm D 200.0 ppm D 200.0 ppm	CUMENE		98-82-8	3.7	A 50.0 ppm	METHYL ETHYL KETONE	78-93-3	71.0 @ 0.0	O None A 300.0 ppm
DIACETONE ALCOHOL 8 & 12 hour	CYCLOHEXANE		110-82-7	100.0@60.0°C	A None				D 300.0 ppm 15 min TWA A 200.0 ppm O 200.0 ppm
	DIACETONE ALCOH	HOL	123-42-2	1.1 @ 200.0°C	A None				8 & 12 hour

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METHYL ISOAMYL KETONE	110-12-3	4.5	A 50.0 ppm 8 hr TLV	A 300.0 ppm O 300.0 ppm
			O 100.0 ppm 8 hr PEL	1330-20-7 9.0 @ 25.0°C A 100.0 ppm TWA A 150.0 ppm
METHYL ISOBUTYL KETONE	108-10-1	15.0	A 75.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm	15 min STEL D 150.0 ppm 15 min STEL O 100.0 ppm D 100.0 ppm 8 & 12 hour
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	TWA 1,2,4-TRIMETHYL BENZENE 95-63-6 7.0 @ 44.4°C A 25.0 ppm O 25.0 ppm O 25.0 ppm
			CEIL Skin	otherwise specified. Vapor pressure @25°C unless otherwise noted. SECTION 3 - Hazards Information
PETROLEUM NAPHTHA				Section 5 - Hazards Information
	64742-89-8	50.0 @ 25.0°C	O 400.0 ppm 15 min STEL D 100.0 ppm A 300.0 ppm O 300.0 ppm	Potential Health Effects: Inhalation: May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged
PROPYLENE GLYCOL METHYL E				overexposure to solvents with permanent brain and nervous system
	107-98-2	11.2 @ 25.0℃	A 150.0 ppm 15 min STEL A 100.0 ppm O None	damage. Ingestion: May result in gastrointestinal distress. Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged
PROPYLENE GLYCOL MONOMET	THYL ETHER AC 108-65-6	ETATE 3.7	D 10.0 ppm	liquid contact may cause skin irritation with discomfort and dermatitis.
	100 05 0	3.7	12 hr TWA A None O None	Other Potential Health Effects in addition to those listed above:
				ACETONE May cause irritation of the mucous membranes.
SILICONE RESIN	9016-00-6	7.0	A None O None	The following medical conditions may be aggravated by exposure: respiratory system skin Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Overexposure may cause damage to any
TOLUENE	108-88-3	22.0	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA	of the following organs/systems: blood eyes kidneys liver respiratory system skin Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.
VM&P NAPHTHA			A 50.0 ppm Skin O 500.0 ppm 10 min TWA Maximum	AROMATIC HYDROCARBON-A Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.
VINDY NAPTITA	64742-89-8	15.0 @ 37.8℃	O 400.0 ppm 15 min STEL D 100.0 ppm	iver tumors. AROMATIC HYDROCARBON-B Laboratory studies with rats have shown that petroleum distillates

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can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

BUTYL ACETATE

May cause abnormal liver function.

The following medical conditions may be aggravated by exposure: respiratory system

May cause eye irritation with discomfort, tearing, or blurred vision. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

CUMENE

Skin contact may cause any of the following: irritation discomfort rash

Eye contact may cause any of the following: blurred vision irritation discomfort tearing

DIACETONE ALCOHOL

Recurrent overexposure may result in liver and kidney injury.

ETHYL ACETATE

Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs.

ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen.

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system kidneys liver lungs Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE

May destroy red blood cells.

May cause abnormal kidney function.

May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath.

The following medical conditions may be aggravated by exposure: central nervous system gastrointestinal system kidneys liver dermatitis

Can be absorbed through the skin in harmful amounts.

Overexposure may cause damage to any of the following organs/systems: blood kidneys liver

Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

ETHYLENE GLYCOL MONOBUTYLETHER

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

ISOPROPYL ALCOHOL

The following medical conditions may be aggravated by exposure: dermatitis respiratory disease

Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact may cause skin irritation with discomfort or rash. Can be absorbed through the skin in harmful amounts. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver

Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

Aspiration may occur during swallowing or vomiting, resulting in lung damage. May cause central nervous system depression with headache, stupor, uncoordinated or strange behavior, or unconsciousness. Irritating to the mouth, throat and stomach. May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, coughing and possibly accompanied by chest pain. Prolonged or repeated skin contact may cause drying, cracking, or irritation. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness. Swallowing significant amounts of substance could cause serious injury, even death.

MEDIUM MINERAL SPIRITS

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

METHYL ETHYL KETONE

Material is irritating to mucous membranes and upper respiratory tract. Persons with certain types of neurological disease such as multiple sclerosis should consult a physician prior to exposure. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system eyes respiratory system skin Contact may cause skin irritation with discomfort or rash. Can irritate or burn eyes. Prolonged or repeated overexposure may cause any of the following: conjunctivitis dermatitis High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Mice that were force fed (gavage) showed teratogenic effects embryofetotoxicity and maternal toxicity. The no observed effect level was estimated to be 25g/50 kg (110 lb.) woman. Laboratory animals exposed to high airborne levels showed tissue changes in the nasal passages. Aspiration may occur during swallowing or vomiting, resulting in lung damage. May cause central nervous system depression with headache, stupor, uncoordinated or strange behavior, or unconsciousness.

METHYL ISOAMYL KETONE

May cause eye irritation with discomfort, tearing, or blurred vision. Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed.

Inhalation of high vapor concentrations may cause any of the following: drowsiness irritation

METHYL ISOBUTYL KETONE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system lungs

Recurrent overexposure may result in liver and kidney injury.

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N-BUTYL ALCOHOL

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

PETROLEUM NAPHTHA

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

PROPYLENE GLYCOL METHYL ETHER

Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys liver

Aspiration may occur during swallowing or vomiting, resulting in lung damage.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

May cause eye irritation with discomfort, tearing, or blurred vision. May cause moderate eye burning.

Recurrent overexposure may result in liver and kidney injury. May cause irritation of the upper respiratory passages.

TOLUENE

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

May cause eye irritation with discomfort, tearing, or blurred vision. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed.

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

VM&P NAPHTHA

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

XYLENE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow cardiovascular system central nervous system kidneys liver lungs

Can be absorbed through the skin in harmful amounts.
Can irritate or burn eyes. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heartbeats.
Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at

levels toxic to the adult animal. The significance of these effects

to humans is not known. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Prolonged or repeated skin contact may cause drying, cracking, or irritation.

SECTION 4 - First Aid Measures

First Aid Procedures:

Inhalation:

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

Ingestion:

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

Skin or eye:

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

SECTION 5 - Firefighting Measures

Flash Point (Closed Cup) See Section 11 for exact values. Flammable limits LFL 0.0 % UFL 16.0 %

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

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

Protective 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

SECTION 10 - Stability and Reactivity

Stability:

Stable

Incompatibility (materials to avoid):

None reasonably foreseeable

Hazardous decomposition products:

 $\text{CO},\,\text{CO}_2,\,\text{smoke,}$ 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)

RT001P Butanedioic Acid, Dimethyl Ester (5.9%), Dibasic Ester (18.3%), Hexanedioic Acid, Dimethyl Ester (5.3%), Methyl Ethyl Ketone (68.4%*@), Xylene (1.8%*@)

GAL WT: 7.25 WT PCT SOLIDS: 0.39 VOL PCT SOLIDS: 0.33 SOLVENT DENSITY: 7.25 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 (16.9%*@), Silicone Resin (1.5%), Xylene (75-89%*@) 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

VGF17761 Ethylbenzene (2.5-6.3%*@), Silicone Resin (18.7%), Xylene (75-79%*@)

GAL WT: 7.49 WT PCT SOLIDS: 18.75 VOL PCT SOLIDS: 15.32 SOLVENT DENSITY: 7.19 VOC LE: 6.1 VOC AP: 6.1 FLASH POINT: 20°F to below 73°F H: 2 F: 3 R: 0 OSHA STORAGE: IA TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

3924S Acetone (30.6%), Cyclohexane (0-1%*), Isopropyl Alcohol (13.2%), Petroleum Naphtha (34.0%), Toluene (19-21%*@)

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: NO

3979S Aromatic Hydrocarbon-A (6.2%), Ethylene Glycol Monobutyl Ether Acetate (30.0%*@), Medium Mineral Spirits (8.0%), 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

T-0475 Acetone (29.5%), Butyl Acetate (18.5%), Ethylene Glycol Monobutylether (2.5%*@), Isopropyl Alcohol (8.3%), Petroleum Naphtha (19.0%), Propylene Glycol Monomethyl Ether Acetate (1.4%), Toluene (19-20%*@)

GAL WT: 6.72 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.72 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

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T- 6013 Ethylbenzene (15.1%*@), Isopropyl Alcohol (2.6%), Methyl Ethyl Ketone (11.3%*@), Propylene Glycol Monomethyl Ether Acetate (2.5%), Xylene (63-75%*@)

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 (57.1%), Cumene (0-5%*@), N-Butyl Alcohol (9.4%*), Xylene (0-3%*@), 1,2,4-Trimethyl Benzene (9-41%*)

GAL WT: 7.18 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 7.18 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- 8245 Aromatic Hydrocarbon-B (31.5%), Cumene (0-3%*@), N-Butyl Alcohol (49.9%*), Xylene (0-2%*@), 1,2,4-Trimethyl Benzene (5-23%*)
GAL WT: 6.99 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.99 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 (17.7%*@), Petroleum Naphtha (1.3%), Xylene (74-80%*@)

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 (7.2%*@), N-Butyl Alcohol (59.7%*), Xylene (30-36%*@)

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 Ethylbenzene (0.6-1.7%*@), Methyl Ethyl Ketone (12.1%*@), Petroleum Naphtha (16.9%), Toluene (12-16%*@), VM&P Naphtha (52.0%), Xylene (1-5%*@)

GAL WT: 6.33 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.33 VOC LE: 6.3 VOC AP: 6.3 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 Medium Mineral Spirits (99.4%), 1,2,4-Trimethyl Benzene (0-1%*) GAL WT: 6.44 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 6.44 VOC LE: 6.4 VOC AP: 6.4 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 (35.5%), VM&P Naphtha (39.1%) 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: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

TY8593 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%*@)
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 (1-1%*@)

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: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

37692 Acetone (28.3%), Butyl Acetate (8.0%), Ethylbenzene (5.4%*@), Ethylene Glycol Monobutyl Ether Acetate (13.0%*@), N-Butyl Alcohol (8.6%*), Toluene (12.1%*@), Xylene (22-27%*@)

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: TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

68083 Ethylbenzene (9.0%*@), Ethylene Glycol Monobutyl Ether Acetate (50.0%*@), Xylene (38-45%*@)

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

68084 Ethyl Acetate (14.6%), Ethylbenzene (7.7%*@), Ethylene Glycol Monobutyl Ether Acetate (42.6%*@), Xylene (32-38%*@)
GAL WT: 7.52 WT PCT SOLIDS: 0.30 VOL PCT SOLIDS: 0.26
SOLVENT DENSITY: 7.52 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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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.

* = 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.

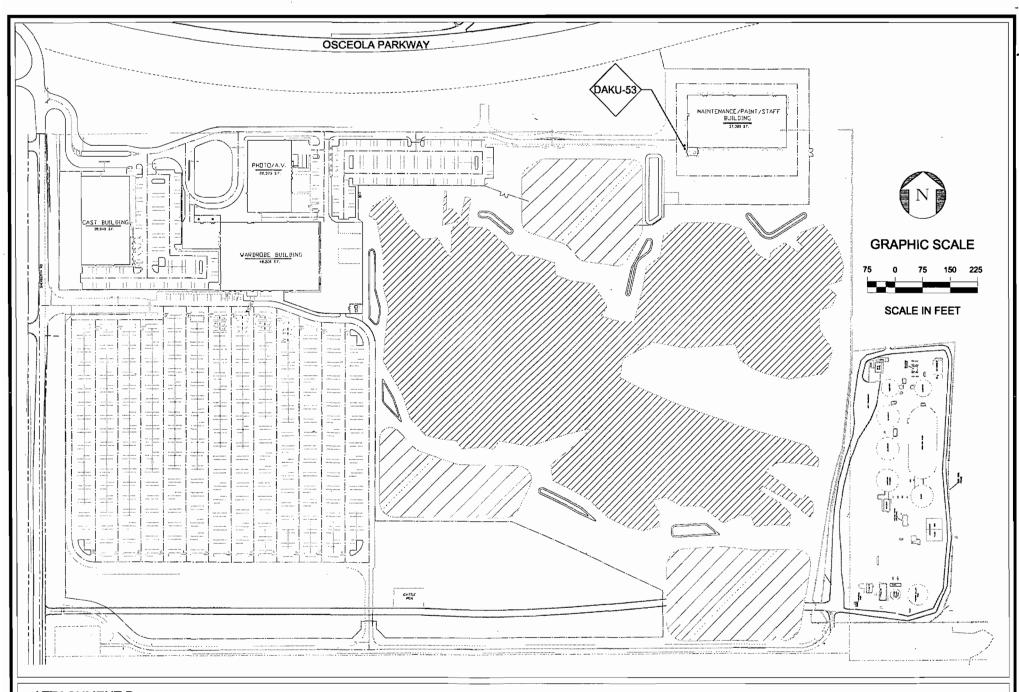
NOTICE:

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.

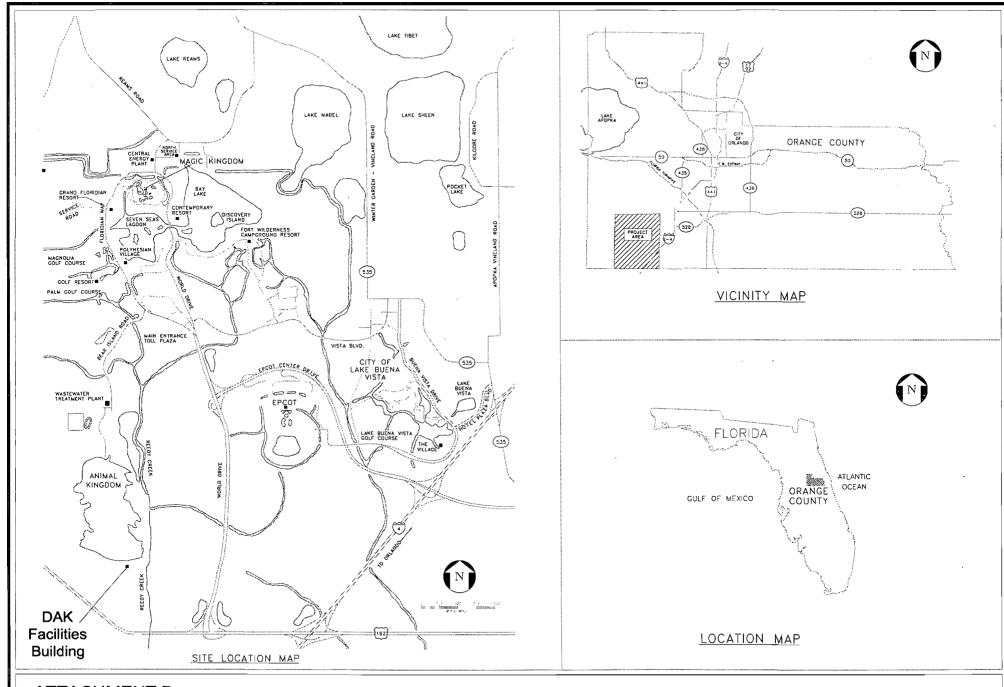
Product Manager - Refinish Sales Prepared by: E. L. Taylor

ATTACHMENT B

FACILITY PLOT PLAN AREA MAP



ATTACHMENT B
FACILITY PLOT PLAN
DISNEY'S ANIMAL KINGDOM - BACK OF HOUSE FACILITIES BUILDING PAINT SPRAY BOOTH



ATTACHMENT B
AREA MAP SHOWING FACILITY LOCATION
DISNEY'S ANIMAL KINGDOM - BACK OF HOUSE FACILITIES BUILDING PAINT SPRAY BOOTH

ATTACHMENT C

RESPONSIBLE OFFICIAL'S STATEMENT PROFESSIONAL ENGINEER'S CERTIFICATION

Owner/Authorized Representative or Responsible Official

1.	Name and Title of (Owner/Authorized Representative or Responsible	Official:
	Lee Schmudde Vic	e President	

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm: Walt Disney World Co.

Street Address: PO Box 10000

City: Lake Buena Vista

State: Florida

Zip Code: 32830-1000

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (407)

828-1723

Fax: (407)

828-1180

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative*(check here [], if so) or the responsible official (check here [V], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.

0/1/4

2-7-02

Signature

Date

Professional Engineer Certification

1. Professional Engineer Name: Richard A. Bumar, Jr.

Registration Number: 55375

2. Professional Engineer Mailing Address:

Organization/Firm: Walt Disney World Co.

Street Address: PO Box 10000

City: Lake Buena Vista State: Florida Zip Code: 32830-1000

3. Professional Engineer Telephone Numbers:

Telephone: (407) 828-3847 Fax: (407) 828-3876

DEP Form No. 62-210.900(1) - Instructions

Effective: 2/11/99

^{*} Attach letter of authorization if not currently on file.

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein*, that:

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

 $\frac{2/6/02}{\text{Signature}}$

Aitlach Tany exception to certification statement.

NO. 55376

DEP Form No. 82-210 900(1) - In

\$\frac{1}{62}\$-210.900(1) - Instructions