

# Pionite®

## DecoCor™ Thick Phenolic Core Laminate Technical Bulletin

### Product Identification

DecoCor™ is designed for applications where the decorative surface must contribute to the structural stability of the finished assembly. DecoCor™ is available in the following configurations: decorative both sides; decorative one side, glueable one side; glueable both sides.

### Product Composition

DecoCor™ is manufactured in a flat press by combining decorative papers saturated in melamine resin with phenolic-impregnated kraft layers at pressures exceeding 1000 psi (6895 kPa) and temperatures approaching 300° F (150° C). The thickness of the laminate is determined by the number of kraft layers used. The laminating process combines the durability of melamine resins with the aesthetics of decorative papers creating a surfacing material that has been the standard for well over forty years.

### Product Description

DecoCor™ can be manufactured using any Pionite solid color or pattern, and is available with either brown or black phenolic core. Laminate edges can be polished for a finished appearance. To further enhance the edge appearance, DecoCor™ can be manufactured with colored stripes within the core.

Optimal Flatness is obtained by specifying the same color and finish on both sides of thick phenolic core laminates.

DecoCor™ is available in thicknesses up to 1 inch (25 mm) and offers the same chemical resistance properties as standard Pionite laminate. DecoCor™ can be manufactured with enhanced chemical resistance, for details please see our ChemGuard Technical Bulletin. Thicker grades of DecoCor™ can be very heavy. Because of this increased weight, manual handling may be difficult. Please consult the chart below for approximate sheet weight and thickness.

		Product Types				
		D20	D44	D56	D68	D74
Thickness	(in)	0.12	0.25	0.50	0.75	1.00
	(mm)	3	6	13	19	25
	(lb/ft <sup>2</sup> )	0.84	1.78	3.68	5.43	7.44
	(g/m <sup>2</sup> )	4.1	8.7	18.0	26.6	36.5

DecoCor™ is available in the following sizes:

Nominal widths; 36" (915mm), 48" (1220mm) and 60" (1525mm).

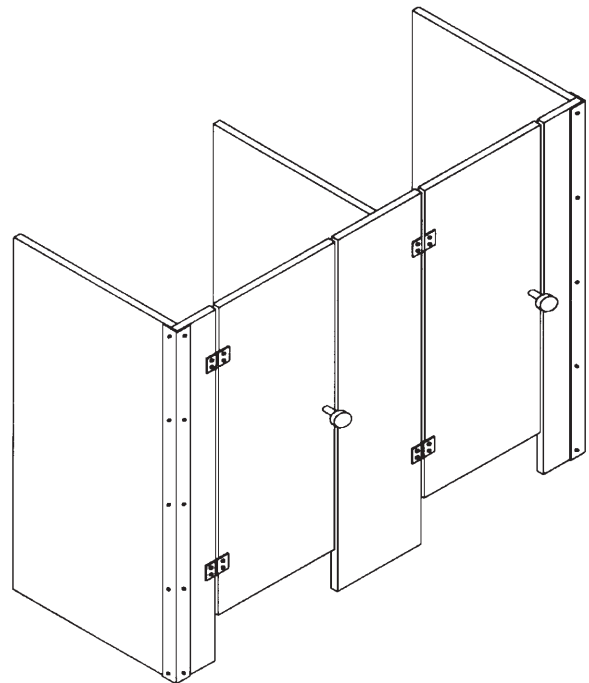
Nominal lengths; 96" (2440mm), 120" (3050mm) and 144" (3660mm).

### Finish Options

Code	Finish	Description
N	Suede	Low gloss, textured finish, 12 ± 3 gloss units.
G	Gloss	A high gloss, smooth finish, 100 ± 10 gloss units.
J	Crystal	Fine pebble grained finish with a medium gloss, 15 ± 3 gloss units.
H	Hi-Brite	Smoothly textured furniture finish, 25 ± 5 gloss units.
C	Soft Leather	A finely grained leather finish, 14 ± 3 gloss units. Available in widths of 48" and 60" only.
Z	Ashwood	A fine wood finish with a cathedral grain, 18 ± 3 gloss units.

NOTE: Gloss units measured with a 60 degree gloss meter.

### Dressing Room Made Of DecoCor™



### Typical Uses

DecoCor™ is ideally suited for toilet and dressing room privacy partitions. Other uses for DecoCor™ include tabletops, doors, workstations, wall panels, and desktops.

## Fabrication Tips

When working with DecoCor™, the following techniques will produce a quality application.

- To minimize the potential of warpage, laminate should be stored horizontally at an approximate temperature of 70° F to 75° F (21° C to 24° C) and 45% to 50% relative humidity. Good air and humidity circulation on all sides of the panel is important to maintain flatness. Exposure to extreme temperature and humidity can cause warpage.
- DecoCor™ can be sawed, drilled, routed and tapped. Tool bits should be carbide tipped and run at high speeds to minimize chipping. To minimize the development of surface scratches caused by router bits, lubricating the laminate edge with a wax stick is recommended prior to tooling.
- Although stress cracks are unlikely, cutouts for electrical outlets, sinks, etc., should be oversized and inside corners should have a minimum radius of 1/8" (3 mm) and be filed smooth.
- Self-tapping screws can be used in pre-drilled holes.
- Metal brackets or clips can be used to join laminate panels. In some cases it may be necessary to use shims to level out the joint.
- DO NOT SCREW INTO THE EDGES OF DECOCOR™.
- DO NOT USE SPLINES IN THE EDGE OF DECOCOR™.
- When nails or screws must be used, it is advisable to first drill an oversized hole through the laminate. This reduces the likelihood of stress cracks.
- Avoid drilling holes close to the edge. A minimum distance of 1 1/2 times the hole diameter from the edge is recommended.
- Revealed edges of DecoCor™ may be finished by using coarse (80 grit) sandpaper to remove the saw striations followed by sanding with fine (180-220 grit) sandpaper. The edge can then be polished with a light oil or wax resulting in an attractive, glossy finish that accents the decorative surface of the DecoCor™.
- Mitered edges should be avoided.
- All laminate is intended for interior use only, and should not be exposed to extreme humidity, continuous sunlight, or temperatures above 275° F (135° C) for extended periods of time.
- Contact adhesive can be used to bond the glueable surface of DecoCor™.
- Epoxy adhesive is recommended for bonding DecoCor™ components. Light sanding of the surface with 100 grit sandpaper will improve bond strength.
- Fabricated assemblies should meet DLPA (Decorative Laminate Products Association) and ANSI A-161.2-1979 specifications where applicable

## Technical Information

### Typical Test Results for DecoCor™

TEST		NEMA LD3-1995					
		Test Method	D20	D44	D56	D68	D74
Thickness	(in) (mm)		.12 ± .01 3	.25 ± .01 6	.50 ± .02 13	.75 ± .02 19	1.0 ± .02 25
Appearance		3.1	Complies	Complies	Complies	Complies	Complies
Light Resistance		3.3	Slight Effect	Slight Effect	Slight Effect	Slight Effect	Slight Effect
Cleanability		3.4	10 Max	10 Max	10 Max	10 Max	10 Max
	Stain 1-10 Stain 11-15		No Effect Moderate	No Effect Moderate	No Effect Moderate	No Effect Moderate	No Effect Moderate
Boiling Water Resistance		3.5	No Effect	No Effect	No Effect	No Effect	No Effect
High Temperature Resistance		3.6	No Effect	No Effect	No Effect	No Effect	No Effect
Ball Impact	(in)	3.8	80	96+	96+	96+	96+
Resistance	(mm)		2030	2440+	2440+	2440+	2440+
Dimensional Change		3.11					
	Machine Direction % Cross Machine Direction %		0.20 0.40	0.20 0.40	0.20 0.40	0.20 0.40	0.20 0.40
Wear Resistance		3.13					
	Cycles		700	700	700	700	700

## Flexural strength

Testing performed in accordance to ASTM D-790.

Machine direction=22,000 psi (152 MPa)

Cross direction=15,000 psi (103 MPa)

## Deflection

The following table is intended to be used as a guideline when considering appropriate applications for DecoCor™. Specific installations of this laminate type should be developed by experienced architects. This table is useful to determine the approximate weight that will cause a 1/4" deflection when evenly distributed over a 12" deep span of DecoCor™ that is simply supported on each end.

To read this table: 1. Find the desired product on the left of the table.  
2. Move across the table until you are under the appropriate span.  
3. The number in the box is the weight that would cause 1/4" deflection in this configuration.

Product Type	Thickness	Span Length		
		18 in 450 mm	24 in 600 mm	30 in 750 mm
D56	.50 in	306 lb	130 lb	67 lb
	13 mm	140 kg	59 kg	30 kg
D68	.75 in	1041 lb	439 lb	225 lb
	19 mm	470 kg	200 kg	102 kg
D74	1.0 in	2468 lb	1041 lb	533 lb
	25 mm	1119 kg	470 kg	242 kg

The following formula was used to calculate the values in the above table:

$$\text{Load per Lineal Inch of Span} = \frac{(D)(E)(W)(T)^3}{0.1563(S)^4}$$

Where: D = Deflection (in.)  
E = Modulus of Elasticity (750,000 psi)  
W = Width of panel (in.)  
T = Thickness (in.)  
S = Span (in.)

This table is only intended for use as a guideline. It does not constitute a warranty. End users must be responsible for the final design of any application, ensuring that it meets all engineering requirements of the installation.

## Fire Test Data

High pressure decorative laminate is frequently used in installations governed by local fire codes. Burning characteristics of laminate are greatly influenced by the adhesive and substrate utilized. Listed below are typical flame spread index and smoke developed values for DecoCor™. DecoCor™ can be manufactured to provide Class A fire test performance. For details, call Pionite Customer Service at 1-800-PIONITE (746-6483).

## ASTM E-84/UL723

### “Standard Test Method for Surface Burning Characteristics of Building Materials”

Type	Sample Configuration	Flame Spread Index	Smoke Developed Values
D56	Unbonded	30	190
D68		30	190
D74		30	190

## ASTM E-162

### “Surface Flammability of Material Using a Radiant Heat Energy Source”

Type	Sample Configuration	Flame Spread Index
D44	Unbonded	25
D56		17

DecoCor™ can also be manufactured to provide improved fire resistant characteristics.

## ASTM E-662

### “Specific Optical Smoke Density”

Type	D <sub>s</sub> @ 1.5	D <sub>s</sub> @ 4.0
D44	1.0	10.2
D56	0.9	5.6

## Care and Maintenance

DecoCor™ provides a durable surface that is easy to maintain using ordinary care.

To maintain the laminate's lasting beauty, cleaning with a solution of warm water and liquid dishwashing detergent is all that should be required in most cases.

Stains may be removed with most non-abrasive household cleaners such as FORMULA 409®, FANTASTIK®, GLASS PLUS®, or WINDEX WITH AMMONIA D®. Light scrubbing with a soft bristled brush may be necessary to remove stains from the depth of the structure on some textured surfaces.

If the stain persists, use a paste of baking soda and water and apply with a soft bristled brush. Light scrubbing for 10-20 strokes should remove most stains. Although baking soda is a low abrasive, excessive scrubbing or exerting too much force may damage the decorative surface, especially if it has a gloss finish.

Stubborn stains that resist any of the above cleaning methods may require the use of undiluted household bleach. Apply the bleach to the stain and let stand no longer than 1 1/2 minutes. Rinse thoroughly with warm water and wipe dry. This step may be repeated if the stain appears to be going away and the color of the laminate has not been affected. **WARNING:** Prolonged exposure of the laminate surface to bleach will cause discoloration.

Many commercially available products contain substances that may damage or discolor a laminate surface. **ABRASIVE CLEANERS SHOULD NOT BE USED.** Particular care should be used with any products labelled CAUTION or WARNING. Any questions or concerns should be referred to the product's manufacturer or call 1-800-PIONITE. Do not allow harsh materials to remain in contact with the laminate surface. Examples of these are as follows:

- Toilet bowl cleaners
- Hydrogen Peroxide
- Oven cleaners
- Drain cleaners
- Metal cleaners and polishes
- Chlorine bleach
- Coffee pot cleaners
- Hard water stain removers
- Fruit and berry juice
- Tub and tile cleaners

Formula 409 is a registered trademark for The Clorox Company of Oakland, CA 94612; Glass Plus and Fantastik are registered trademarks for The Dow Chemical Company of Indianapolis, IN 46268-0511; Windex is a registered trademark for S.C Johnson & Sons INC. of Racine, WI 53403-5011

## Manufacturing Headquarters

Pionite® Decorative Surfaces  
One Pionite Rd.  
P.O. Box 1014  
Auburn, ME 04211-1014  
(207) 784-9111  
800-PIONITE (746-6483)  
www.pionite.com

A Subsidiary of Panolam Industries International, Inc.

Printed on recycled paper



## Limited Warranty

Subject to the limitations set forth below, Pionite® Decorative Surfaces expressly warrants that our products are reasonably free of defects in material and workmanship, and when properly handled and fabricated will conform, within accepted tolerances, to applicable manufacturing specifications as set forth in our technical brochure. This warranty shall extend to the original buyer for a period of twelve (12) months from the date of shipment of this product by Pionite® Decorative Surfaces, and shall not be assignable by the original buyer. This warranty does not cover damage resulting from accident, misuse, alteration, abuse or lack of reasonable care.

Due to the variety of uses and applications to which this product may be put, and because the manufacturer has no control over the end products fabricated, the warranty set forth above is exclusive and in lieu of all other warranties, express or implied, in fact or by operation of law or otherwise, or arising by course of dealing or performance, custom or usage in the trade, including, without limitation, the implied warranties of fitness for a particular purpose and merchantability, and Pionite® Decorative Surfaces shall have no obligation or liability to any person or entity in connection with or arising from the furnishing, sale, installation or repair, use or subsequent sale of any product supplied by it.

The buyer's sole and exclusive remedy for any noncompliance with the express warranty set forth above shall be limited to repair or replacement of the defective product, or, in the event that repair or replacement is not feasible, return of the product and refund of the purchase price.

Under no circumstances shall the manufacturer be liable in excess of the purchase price of this product, in either tort or contract or otherwise, for any loss, damage or injury in connection with or arising from the purchase, use, or inability to use this product, or for any special, indirect, collateral, incidental, consequential or exemplary damages such as, but not limited to, loss of anticipated profits or other economic loss. Because some states do not allow the exclusion or limitation of incidental or consequential damages, this limitation may not apply to you.

Retaining all documentation after purchasing laminate will significantly expedite claim resolution.



# Pionite High Pressure Laminate



## Product and Company Certifications

1. GREENGUARD Indoor Air Quality Certified and GREENGUARD for Children & Schools<sup>SM</sup> Certified.
2. UL Class A Fire Rated:

Building Units	BLBT.R21850
Laminated Plastics	BSMV.R6581
Laminated Plastics (Canada)	BSMV7.R6581
Laminated Plastics, Marine	PIZT.R6581
3. NSF/ANSI Standard 35 – Laminated Plastics for Surfacing Food Service Equipment
4. ROHS/WEEE Compliant
5. ISO 9001 Certified

## LEED Information - HPL

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### MR Credit 4.1 Recycled Content:

The recycled content of our high pressure laminates ranges from 3 to 5% post-industrial and 0% post-consumer.

### MR 5.1 Local/Regional Materials Credit:

These laminates are produced at:

*Panolam Industries International Inc.  
1 Pionite Road  
Auburn, ME 04211*

The paper used for the laminate core is produced at a paper mill that is located in Charleston, SC from wood fiber harvested from the region.

### SCAQMD Rule 1168:

Pionite laminates can be fabricated with adhesives that have low or "0" VOC content and are compliant with the Rule.

### EQ 4.4 Low Emitting Materials

No Urea-Formaldehyde Resins are used in the production of the laminate.

### EQ 4.5 Low Emitting Materials (LEEDs for Commercial Interiors)

Pionite High Pressure Laminates are GREENGUARD Indoor Air Quality Certified.







## Pionite® High Pressure Laminate

### Identifying Environmental Issues. Taking Environmental Action.

#### Protecting Our Water

- Pionite's closed loop cooling system for presses and batch reactors reduces the amount of water taken from the nearby Little Androscoggin River, and virtually eliminates thermal discharge back into the river.
- A process improvement allows us to collect and incinerate polyester distillate, thereby eliminating it from the wastewater stream.
- An oil/water separator removes the oil impurities from our press waste streams, resulting in a cleaner wastewater discharge to the local treatment facility.

#### Ensuring Cleaner, Healthier Air

- Water-based amino resins are used in the decorative paper treatment process to reduce fugitive emissions to the atmosphere.
- Permanent total enclosures are installed on our solvent based paper treaters to capture volatile organic compounds (VOCs) and hazardous air pollutants (HAPs) generated from the paper treating process, eliminating fugitive emissions to the environment and protecting our employees.
- Emissions captured from the total enclosures are combusted in a Thermal Oxidizer. These emissions contain VOCs and HAPs that are destroyed at an efficiency of greater than 99%, which exceeds regulatory requirements. The heat generated from this system is also used to create steam needed for manufacturing operations and to heat the facility, which reduces fossil fuel usage.
- A new vent collection system was installed in 2003 to collect the vapors produced from our melamine and urea resin reactors. These vapors along with the vapors collected from our polyester resin production process are also directed to the thermal oxidizer for destruction at an efficiency greater than 99%.
- Water-based screen print inks are used, thereby virtually eliminating solvent emissions from the screen print process.

#### Waste Reduction

- Recycling programs are established at Pionite facilities. The materials recycled vary by facility and include such things as scrap metals and wood, cardboard and office papers, and pallets and other packaging materials. In 2006 our Maine facility successfully decreased the amount of waste material going to landfill by more than 55% through recycling and alternate disposal methods and is expected to surpass this level in 2007. This equates to over 7 million pounds of waste materials diverted from landfills.
- Laminate scrap is sent to a facility that grinds and bags the materials for use in the oil industry as a drilling fluid additive.
- Pionite uses steel plates to impart texture to the majority of our laminates, eliminating the use and disposal of approximately 2 million pounds of release paper per year which helps conserve forests as well as reduce our solid waste stream.
- Spent fluorescent light tubes, HID bulbs, computer monitors and batteries are sent off-site, where the materials are segregated, recycled and reused.
- Our laminate display boards are made of 98% recycled metal, 40% post-consumer paper, and 100% water-based paint and inks.

***Pionite understands that when a company is dedicated to doing things right, we also have a responsibility to do the right things. We've opened our doors to regulators, our neighboring communities, and our customers, because we want to let you know that we're as proud of our environmental initiatives as we are of the quality of our products.***

# MATERIAL SAFETY DATA SHEET

F63W522  
23 00

DATE OF PREPARATION  
Apr 4, 2010

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

F63W522

### PRODUCT NAME

POLANE® 700T Water Reducible Enamel, White

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300

\*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
4	112-34-5	2-(2-Butoxyethoxy)-ethanol		
		ACGIH TLV	Not Available	0.06 mm
		OSHA PEL	Not Available	
3	84-74-2	Dibutyl Phthalate		
		ACGIH TLV	5 MG/M3	
		OSHA PEL	5 MG/M3	
2	872-50-4	1-Methyl-2-Pyrrolidone		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	Not Available	
24	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.  
**SKIN:** Prolonged or repeated exposure may cause irritation.  
**INHALATION:** Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	2*
Flammability	0
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
Remove contaminated clothing and laundry before re-use.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
Not Applicable	N.A.	N.A.	Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

Not Applicable

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.  
Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.



**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	10.48 lb/gal	1255 g/l
<b>SPECIFIC GRAVITY</b>	1.26	
<b>BOILING POINT</b>	212 - 448 °F	100 - 231 °C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	60%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	N.A.	
<b>pH</b>	8.5	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
	1.78 lb/gal	213 g/l
	0.91 lb/gal	109 g/l
		Less Water and Federally Exempt Solvents Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY****STABILITY — Stable****CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION****CHRONIC HEALTH HAZARDS**

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
112-34-5	2-(2-Butoxyethoxy)-ethanol	LC50 RAT	4HR	Not Available
		LD50 RAT		5660 mg/kg
84-74-2	Dibutyl Phthalate	LC50 RAT	4HR	Not Available
		LD50 RAT		8000 mg/kg
872-50-4	1-Methyl-2-Pyrrolidone	LC50 RAT	4HR	Not Available
		LD50 RAT		4200 mg/kg
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION****ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS****WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION****US Ground (DOT)**

Not Regulated for Transportation.

**DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities**

Di-n-butyl phthalate 10 lb RQ

**Bulk Containers may be Shipped as (check reportable quantities):**RQ, UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.  
(DI-N-BUTYL PHTHALATE), 9, PG III, (ERG#171), \*\* DO NOT FREEZE \*\***Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION****SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
84-74-2	Dibutyl Phthalate	3	
872-50-4	1-Methyl-2-Pyrrolidone	2	
	Glycol Ethers	4	

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.