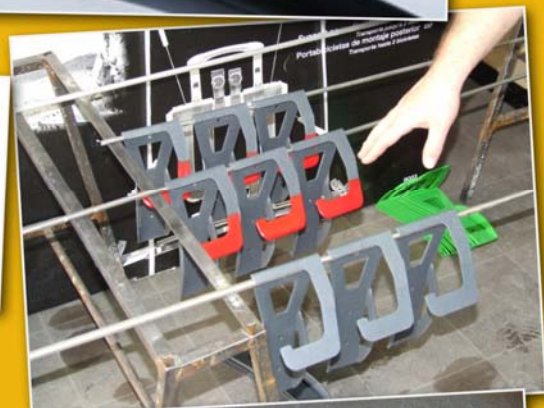






**PLASTI DIP**  
 הציפויים המתקדמים בעולם



## פלסטידיפ™ - ציפוי גומי גמיש

בידוד חשמלי  
50,000 וולט  
למילימטר

- פלסטידיפ - ציפוי גומי סינטטי רב שימושי המתייבש באויר.
- ניתן ליישום בקלות ע"י מברשת, טבילה ואפילו בספריי (ציוד התזה ואיירלס).
- פלסטידיפ אוטם ומספק הגנה מושלמת כנגד לחות, קורוזיה, חומצות, שריטות, התחשמלות והחלקה.
- מצפה ומחדש אחיזה נוחה למגוון כלי עבודה, כלים מכניים וחשמליים, ידיות, מעקות, עמודים ועוד.
- הציפוי יישאר גמיש ואלסטי ולא יתקשה או יסדק גם בתנאים קשים.
- מומלץ לעבודה בטמפ' של  $-30^{\circ}$  עד  $90^{\circ}$  מעלות צלזיוס.

פלסטידיפ ניתן לשימוש למעשה על כל משטח,

לדוגמא:

**מתכת:** מונע קורוזיה, מבודד חשמלי, משכך תנודות ומכהה רעשים.  
**זכוכית:** מגן על מוצרי זכוכית מסדקים ושבירה. (ניתן להשיג בשקוף)  
מגן על מסכי תצוגה (LCD) ומסכי מגע.  
**עץ:** מספק הגנה נגד פגעי מזג אויר, שחיקה, פיצולים ושבבים.  
**חבלים/בדים:** מגן מפגעי מזג אויר, ריקבון, שחיקה ובלאי,  
אוטם קצוות ומונע פרימה.  
**פלסטיק:** אוטם צינורות ומגן על משטחים עדינים מפני שריטות.  
**גומי, בטון, נייר ועוד ועוד**



מיכל  
429 מ"ל



תרסיס  
313 מ"ל



חבית 189 ליטר

פח 18.9 ליטר

מיכל  
3.78 ליטר

ניתן להשיג בצבעים:



**PLASTI DIP**

הציפויים המתקדמים בעולם

# פלסטידיפ™ על בסיס מים (HCF) ציפוי אקרילי על בסיס מים

עמיד לדלקים  
ידידותי לסביבה

## תאור כללי

פלסטי דיפ על בסיס מים הנו ציפוי אקרילי גמיש רב שימושי, שאינו דליק. הציפוי ניתן להתזה, טבילה ומריחה ומגיע במגוון צבעים. בעל תכונות מיוחדות לעמידות בדלקים, חומצות, קרינת UV, קורוזיה וחיכוך. פלסטידיפ על בסיס מים יצמד למתכות, עץ, בטון ופלסטיק ללא צורך בחומר יסוד. כעת ניתן להנות מהתכונות הבטוחות של חומר על בסיס מים, עם הביצועים של ציפוי על בסיס ממיסים.

יישומים לדוגמא:

הגנה על כלים, ידיות, ציוד טיפול בשמנים, קפיצים, ציוד מכני, שרשראות ברזל, מעקות ומדרכים, ציוד גינה ומתקני ילדים, בטון, עץ, פלסטיק, מתכות... ועוד ועוד... ככל העולה על יד הדמיון.

ניתן לצפות קלקר וחומרים מוקצפים למיניהם.

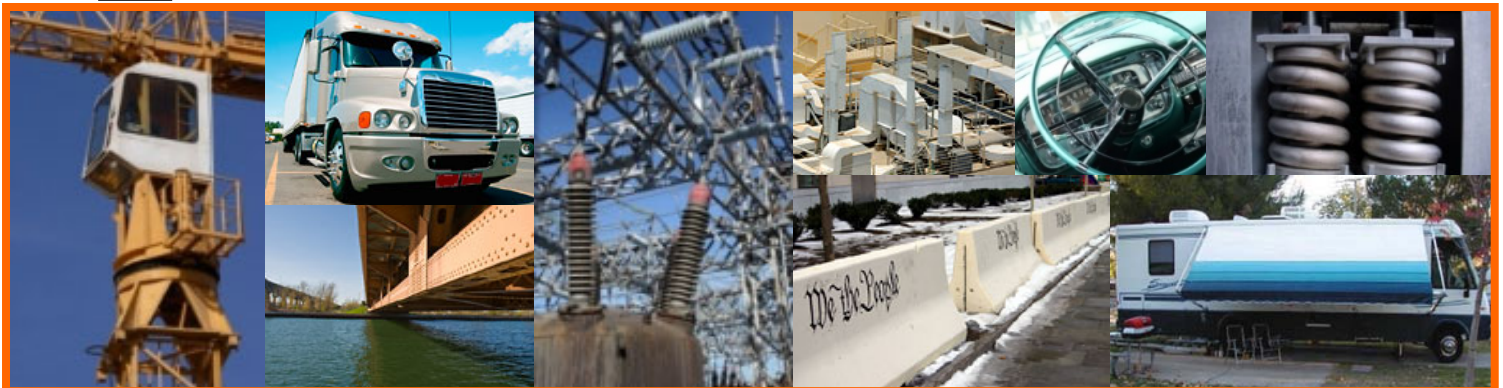


מיכל  
3.78 ליטר


פח 18.9 ליטר



ניתן להשיג בצבעים:



# תוצאות בדיקת בידוד חשמלי לציפוי פלסטי דיפ

	תאריך: 15/11/10	דו"ח מס': פנימי אגפי RL - 407 10/1.60	חח"י - משאבים אסטרטגיים אגף תכנון פתוח וטכנולוגיה מעבדת השמל למחקר ופתוח	 חברת החשמל	
<b>הנושא:</b> משטחים צבועים מתוצרת חברת "פלסטי דיפ ישראל בע"מ"					
<b>סיבת הטיפול:</b> בדיקת חוזק דיאלקטרי					
<b>עבודה מס':</b> 10 / 351 / 1.60			<b>הוזמן ע"י:</b> ארי מאור – חב' פלסטי דיפ ישראל בע"מ		
<b>1. מבוא</b>					
1.1 נתבקשנו ע"י המזמין לבצע בדיקת חוזק דיאלקטרי לדוגמאות משטחים צבועים שנשלחו לבדיקה ע"י חברת "פלסטי דיפ ישראל בע"מ".					
1.2 לצורך הבדיקה נתקבלו 5 פנלים ממתכת צבועים באדום על בסיס גומי ע"י המזמין.					
1.3 הבדיקה נערכה במעבדתנו בתאריך 14/11/2010 .					
<b>2. שיטת הבדיקה</b>					
2.1 הבדיקות בוצעו בהתאם לתקן ASTM D-149 .					
2.2 הפנלים הונחו לבדיקה בין זוג אלקטרודות עגולות בקוטר 25 מ"מ העשויות מפלדת אל חלד. המתח סופק לאלקטרודה העליונה עד לפריצה, כאשר האלקטרודה התחתונה חוברת להארקה. קצב עלית המתח היה 500V/Sec .					
2.3 מכשור הבדיקה כלל:					
- מערכת אספקה ומדידת מתח אוטומטית 0-20 kV, מתוצרת חברת "Hipotronics", מס' T-804 .					
- מחלק מתח קיבולי 100kV ק"ו תוצרת חברת "HIPOTRONICS" דגם KVM-100 מס' T-883 .					
- מכשיר לבדיקת עובי שכבה מתוצרת חברת "Elcometer" דגם 456 מס' M-1113 .					
<b>3. תוצאות הבדיקה</b>					
3.1 בדיקת מתח פריצה:					
<u>טבלה מס' 1</u>					
חוזק דיאלקי (kV/mm)		מתח פריצה (kV)	עובי שכבה (micron)	מס' בדיקה/פנל	שם היצרן
ערך ממוצע	ערך מחושב				
53.6	58.5	10.3	176	1	פלסטי דיפ ישראל בע"מ
	50.5	10.4	206	2	
	46.6	8.9	191	3	
	56.0	8.4	150	4	
	56.4	11.5	204	5	
3.2 בדיקות עובי שכבת הצבע:					
הבדיקה נערכה במעבדתנו - תוצאות הבדיקה ראה בטבלה מס' 1.					
3.3 חישוב ערך חוזק דיאלקטרי:					
ערך חוזק דיאלקטרי חושב כיחס שבין מתח הפריצה ועובי שכבת הצבע.					
תוצאות הבדיקה ראה בטבלה מס' 1					
<b>4. סיכום</b>					
4.1 החוזק הדיאלקטרי הממוצע שנתקבל בבדיקת הדוגמאות מחברת "פלסטי דיפ ישראל בע"מ" הינו - 53.6 kV/mm .					
מאשר: ג.מידוך	בדק: א.גרינברג	א.שגב	מטפלים: א. גרינברג, ד. ישראל, א. וולפסון		
			תפוצה: ג. מירון, א. מאור		

## פלסטיבידוד™ - בידוד ואיטום חשמלי בנוזל ובספריי

בידוד חשמלי  
50,000 וולט  
למילימטר

### תאור כללי

פלסטיבידוד – ציפוי גומי סינטטי הניתן ליישום בקלות ע"י מברשת וספריי. מתייבש באויר, ובעל תכונות מיוחדות לבידוד חשמלי והגנה ממים, מלחים, חומצות וחיכוך. פלסטיבידוד מגיע במגוון צבעים וישאר גמיש, לא יסדק, יתקלף או יתקשה גם בתנאים קיצוניים. חלק ממגוון השימושים:

חיבורי חשמל לסירות, ציוד חקלאי, רכבים, טרקטורונים, אופנועים, ציוד חשמלי לבריכות, משאבות מים, לוחות אלקטרוניים, חשמל ותאורת גן, מתגים, אנטנות, ועוד ועוד.... וגם מונע מברגים להשתחרר.

### נתונים טכניים

בידוד חשמלי: 50,000 וולט למילימטר (ASTM D-149)  
מוצקים (משקל): 24%  
התארכות: 430% (ASTM D-638)  
טמפ' עבודה (לאחר יבוש): (-30°) עד 94° צלזיוס  
התנגדות לכימיקלים:  
חומצות, בסיסים, מלחים – מצוין  
דלקים – מוגבל



### הוראות שימוש

#### הכנת פני השטח:

כל המשטחים, המגעים, החוטים והחיבורים צריכים להיות נקיים, יבשים וללא שאריות שמן, גריז וחתיכות רופפות.

#### לערבב היטב לפני השימוש - יש להשתמש במקום מאוורר היטב

לפני כל שימוש יש לערבב בעדינות באמצעות המברשת המוצמדת למכסה. יש להמנע מיצירת בועות אויר בנוזל. לכיסוי שטח יש למרוח שכבות חופפות רטובות. יש להמתין 10-20 דקות ייבוש (יבש למגע) לפני יישום שכבה נוספת עד להגעה לעובי הרצוי. לקבלת התוצאות הטובות ביותר מומלץ מינימום של 2-3 שכבות. 24 שעות לייבוש מלא.

זהירות: יש לנתק את זרם החשמל לפני העבודה ולפעול לפי כללי הבטיחות. לקבלת בידוד חשמלי טוב יש להבטיח מינימום עובי שכבה של 100 מיקרון (2 שכבות).

### המלצות

יש לאפשר 4 שעות זמן ייבוש לשכבה לפני שימוש. כאשר ניתן, יש לאפשר ייבוש למשך הלילה. יש להמנע מרוחות, חום ולחות. יש להשתמש במקום מאוורר היטב ובציוד הגנה מתאים. יש לקרוא את הוראות השימוש והאזהרה המודבקות ע"ג המוצר. ניתן לעיין בעלון הבטיחות (MSDS).



Technical data sheet #5

# PLASTI DIP® /U.V. STABLE

## (F-819, F-820 & F-698)

### FOR INDUSTRIAL USE ONLY

#### DESCRIPTION:

PLASTI DIP® is an air dry, synthetic rubber coating that can be easily applied by spraying, brushing or dipping. PLASTI DIP® resists moisture, acids, abrasion, weathering, electrical shock, skidding/slipping, corrosion; coats and gives a comfortable, controlled, color coded grip to all types of tools; lawn and garden, mechanical, electrical, woodworking and masonry.

PLASTI DIP® can also be applied to:

Wood: seals and protects from weathering and prevents splinters.

Metal: reduces vibration, deadens sound, prevents corrosion, insulates electrically and from extreme temperatures.

Glass: shatterproofs glass objects (available in clear).

Rope/Fabrics: weatherproofs, prevents rotting and fraying.

Plastics: protects delicate surfaces from scratches.

Rubber: weatherproofs, wear resistant.

#### SPECIFICATIONS:

Solids: (wt.) 24%

Tensile: (ASTM D-638) 3,740psi

Elongation: (ASTM D-638) 430%

Cut resistance: (ASTM D-1044) very good

Coverage: 40 sq.ft. per gallon at 10 mils

Stone abrasion: (ASTM D-3170) excellent

Shelf life: 1+ years at 77°F unopened container

Viscosity range: 80 – 100 K.U. @ 77°F (+/- 2°F)

Weatherability: (ASTM G-53)

3-5 years: PLASTI DIP

7-10 years: PLASTI DIP U.V.

#### Chemical resistance:

acids, alkalines, pollutants: excellent

petroleums: limited

#### ALTERNATIVE PRODUCTS:

For a water base alternative see HCFeccs® technical data sheet

Durometer: shore A (ASTM D-2240) 70

Salt spray: (ASTM B-117) passed 1,000 hours

Temperature use range: -30°F to 200°F.

Permeability: (ASTM E-96) .03 grains/sq. ft./hr.

Dielectric: (ASTM D-149) 1,400 v/mil

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the applications of this information or the safety and suitability of our products, either alone or in combination with other product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products whether used alone or in combination with other products. Ever changing V.O.C. regulations in your area may require you to contact local authorities for proper use and/or disposal of this product. Should you need further assistance, please contact PLASTI DIP INTERNATIONAL technical service.

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BINKS is a registered trademark of BINKS MFG. CO., Franklin Park, IL



# HCF

eCCS<sup>®</sup> TECHNICAL DATA SHEET #10

## F-688/ F-688 's' Water Base Acrylic Coating FOR INDUSTRIAL USE ONLY

### DESCRIPTION:

HCF<sup>®</sup> is a flexible acrylic, water base coating. It's very low V.O.C.'s, non-flammable and high solids content make it an Emission Control Coating System, eCCS<sup>®</sup>, that can be air dried or heat cured to meet production demands. HCF<sup>®</sup> can be dipped, brushed or sprayed, is available in a wide variety of colors and exhibits excellent petroleum, chemical, UV, corrosion and abrasion resistance. Typical applications include protecting and color coding transformers, coils, tools, fixtures and brackets, oil handling equipment, heavy machinery, and chain link fence components. HCF<sup>®</sup> bonds to metal, wood, concrete and plastics without primers. HCF<sup>®</sup> has the safety of water base with the performance of solvent base coatings. Use HCF<sup>®</sup> F-688 's' for spray applications.

### SPECIFICATIONS:

Solids: (wt.) 36%  
Finish: Semi gloss  
Tensile: (ASTM D-2370) 230psi  
Temperature use range: -0°F to 250°F.  
Coverage: 100 sq.ft. per gallon at 5 mils  
Shelf life: 1+ years at 77°F unopened container

Elongation: (ASTM D-2370-82) 230%  
Abrasion: (ASTM D-4060) 0.0005 inches/100 cycles  
Permeability: Limited  
Weather ability: (ASTM G-53) Excellent 7-10 years  
Dielectric (ASTM D-149) 1,100 v/mil

### Chemical resistance:

petroleum: Excellent  
acid, alkaline: Good  
alcohol, ketone, chlorinated solvent: Limited

### ALTERNATIVE PRODUCTS:

Use HCF<sup>®</sup> F-688's' for spray applying or contact Technical Service for alternatives.

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### SURFACE PREPARATIONS: MIX WELL BEFORE USE.



## PDC® F-694

### Fire Retardant Synthetic Rubber Coating FOR INDUSTRIAL USE ONLY

#### DESCRIPTION:

F-694 is a fire retardant synthetic rubber coatings that exhibit the ultimate in durability and strength in the foam coatings industry. The unbeatable flexibility and elongation range from -30°F to 200+°F. F-694 can be applied to polyethylene, X-Link PE and EVA foams as well as to many plastics such as ABS. F-694 has been used in the medical industry for over a decade and exhibit excellent abrasion, puncture, moisture and chemical resistance. Typical applications are foam positioning devices, buoys, sporting goods and padding, packaging, seat cushions, boat and dock bumpers.

#### OTHER FEATURES INCLUDE:

Wide variety of pastel colors available.

Excellent flexibility.

Passes UL94 VTM-0 burn testing

**May cause artifacts in imaging applications**

#### SPECIFICATIONS:

Solids: (wt.) 24%

Temperature use range: -30°F to 200°F

Block Resistance: 4hr @ 140F

Elongation: (ASTM D-638) 500%

Tensile: (ASTM D-638) 2,500psi

Weatherability: (ASTM G-53): 3-5 years: F-694

Shelf life: 1+ years at 77°F unopened container

Coverage: 30 sq.ft. per gal at 15 mil

Finish: satin

Chemical resistance: In House Test Results [ASTM D-1308]

acids, alkalines, moisture, urine: excellent

petroleums: limited

#### ALTERNATIVE PRODUCTS:

For urethane foams, see F-830 Muraculon technical data sheet #26. For PVC foams, see F-818 technical data sheet #4.

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TECHNICAL DATA SHEET #59

## CFL Containment Coating

### F-896/ F-896's' High Performance Containment Coating FOR INDUSTRIAL USE ONLY

#### DESCRIPTION:

F-896 is a flexible, high performance, high strength, fast set water base coating. F-896 provides excellent glass partical/ mercury containment for low temperature CFL [compact fluoresent lamp] bulbs, should they break during transportation, storage or use. It's very low V.O.C.'s, non-flammable and high solids content make it an Emission Control Coating System, eccs®, that can be air dried or heat cured to meet production demands. F-896 can be dipped or brushed, is available in clear as well as a variety of custom colors. F-896 exhibits excellent chemical, impact, abrasion, tear strength, UV and block resistance and offers excellent heat/ non-yellowing properties.

Typical applications include protecting/ containment of low temperature CFL/ CFT compact fluoresent bulbs, colored/ decorating low temp CFL/ CFT bulbs.

F-896 has the safety of water base with the performance and cure times of solvent base coatings. Use F-896 'S' for spray applications.

#### SPECIFICATIONS:

Solids: (wt.) 41-43%	Finish: Semi gloss
Elongation: ASTM D 412 825%	Abrasion: excellent
Tensile: ASTM D 412 3680 psi	Permeability: Limited
Tear resistance: ASTM 1004 .70	Temperature use range: -0°F to 250°F.
Weather ability: (ASTM G-53) Excellent 7-10 years	
Coverage: 150 sq.ft. per gallon at 5 mils	
Shelf life: 1+ years at 77°F unopened container	
Freeze Thaw Stability: Excellent	

#### Chemical resistance:

petroleum: Excellent  
acid, alkaline: Good  
alcohol, ketone, chlorinated solvent: Limited

#### ALTERNATIVE PRODUCTS:

Contact Technical Service.

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TECHNICAL DATA SHEET #80

# F-938 H.P. PRIMER

## FOR INDUSTRIAL USE ONLY

### DESCRIPTION:

F-938 H.P. PRIMER is a fast dry primer specifically developed to increase adhesion of PLASTI DIP® / F-820/ F-819 or F-698 to metal surfaces. F-938 H.P. PRIMER can be sprayed, dipped or brushed and offers fast set up time with a high coverage rate. Typically applied in one coat, only extreme corrosion and abrasion require a second coat, eliminating extensive preparation for most applications.

F-938 H.P. PRIMER is recommended on all metal surfaces, especially galvanized, to prevent peeling of PLASTI DIP® / F-820 if it becomes damaged, reducing the amount of time to repair the damaged area. For best results apply PLASTI DIP® / F-820 over F-938 H.P. PRIMER as soon as it is dry to the touch. F-938 H.P. PRIMER is **not** recommended for use as a protective coating on its own.

### SPECIFICATIONS:

Solids: (wt.) 5%

Shelf life: 1+ years @ 77°F unopened container

Coverage: 50 sq.ft. per gallon at 1 mil

### ALTERNATIVE PRODUCTS:

If F-938 H.P. PRIMER is not available, other high quality acrylic primers may be substituted. Always test substitutes before applying to actual application. **RUST-OLEUM® brand primers are not compatible.**

We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the applications of this information or the safety and suitability of our products, either alone or in combination with other product combination for their own purposes. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of our products whether used alone or in combination with other products. Ever changing V.O.C. regulations in your area may require you to contact local authorities for proper use and/or disposal of this product. Should you need further assistance, please contact PLASTI DIP INTERNATIONAL technical service.

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## TEST RESULTS CONCERNING PLASTI DIP CHEMICAL RESISTANCE

<u>CHEMICALS USED</u>	<u>STRENGTH</u>	<u>TEMPERATURE</u>	<u>RESISTANCE</u>
Ferric Chloride	100%	150 degrees F.	Slight staining and softness of film
H2SO4	5%	100 degrees F.	Pass
Potassium Hydroxide	3%	150 degrees F.	Pass
Potassium Permanganate	3%	150 degrees F.	Film stable – noticed staining
Sodium Hydroxide	10%	210 degrees F.	Noticed softness of film
Hydrochloric Acid	100%	Room Temp	Pass
Oxalic Acid	50%	Room Temp	Film stable in chemical / water solution
Fluoroboric Acid	25%	Room Temp	Pass
Tin/Lead – salt plating solution	100%	Room Temp	Pass
Copper – salt plating solution	100%	Room Temp	Pass
Gold Cyanide – plating solution	100%	140 degrees F.	Pass
Sodium Carbonate	10%	210 degrees F.	Pass
Sodium Hydroxide	10%	120 degrees F.	Noticed softness of film
Ammonia Hydroxide	100%	100 degrees F.	Pass
Methyl Ethyl Ketone	100%	Room Temp	Fail
Ethyl Alcohol	100%	Room Temp	Pass

April 2002

## MATERIAL SAFETY DATA SHEET

<b>NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.</b>					
<b>IDENTITY</b> (As shown on Label or package) <b>PLASTI DIP and PLASTI DIP UV</b> (F-698, 819, 820)				<b>PART NO.</b> <b>IF APPLICABLE</b>	
<b>SECTION I</b>					
<b>MANUFACTURER'S NAME</b> Plasti Dip International Inc.				<b>EMERGENCY PHONE No.</b> <b>USA only:</b> 1-800-424-9300 <b>INT'L:</b> 703-527-3887	
<b>ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)</b> 3920 Pheasant Ridge Drive				<b>REVISION #</b> 0004	
Blaine, MN 55449				<b>MANUFACTURER'S PHONE No. FOR INFORMATION</b> 1-763-785-2156	
				<b>DATE MSDS WAS PREPARED</b> May 25, 2007	
<b>SECTION II - HAZARDOUS INGREDIENTS INFORMATION. All Health Hazards which comprise 1% or greater of the composition and all carcinogens if 0.1% of the composition or greater.</b>					
<b>HAZARDOUS COMPONENTS CHEMICAL and IDENTITY AND COMMON NAME (S)</b>	<b>% Wt. (OPTIONAL)</b>	<b>CAS NO.</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OTHER LIMITS RECOMMEND</b>
VM&P Naphtha	36.5 – 37.1	64742-89-8	300 ppm	300 ppm	None
Hexane	18.2 – 18.6	110-54-3	500 ppm	50 ppm	None
Toluene	14.6 – 14.8	108-88-3	200 ppm	50 ppm	None
Methyl Ethyl Ketone	3.5 – 3.7	78-93-3	200 ppm	200 ppm	None
Resins	25.8 – 27.1	N/A	N/A	N/A	None
<b>SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS</b>					
<b>BOILING POINT</b> 149-285°F	<b>SPECIFIC GRAVITY (H<sub>2</sub>O =1)</b> 0.79 – 0.83		<b>APPROXIMATE WEIGHT PER GALLON (LBS)</b> 6.60 – 6.90		
<b>VAPOR PRESSURE</b> 125 mmHg @ 20°C	<b>VAPOR DENSITY (AIR = 1)</b> Heavier than air		<b>EVAPORATION RATE (BUTYL ACETATE =1)</b> >1.0		
<b>SOLUBILITY IN WATER</b> Insoluble	<b>% VOLATILE</b> 72.8 – 74.8 <b>VOC LBS./GAL</b> 4.9-5.0		<b>OTHER (IF ANY)</b> None		
<b>APPEARANCE AND ODOR</b> Various colors, Honey Like Substance – Characteristic Odor					
<b>SECTION IV-FIRE AND EXPLOSION HAZARD DATA</b>					
<b>FLASH POINT (METHOD USED)</b> -10.0°F TCC	<b>FLAMMABLE LIMITS</b>		<b>LEL</b> 0.9	<b>UEL</b> 11.5	
<b>EXTINGUISHING MEDIA</b> Carbon Dioxide, Dry Chemical, or Foam					
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> Self contained breathing apparatus with a full face piece, operated in pressure demand or other positive pressure mode.					
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> This material is flammable and may be ignited by heat, sparks, flame or static electricity.					
<b>HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMPOSITION</b> Carbon Dioxide and/or Carbon Monoxide					
<b>EXPLOSIVE LIMITS (% BY VOLUME IN AIR)</b> 0.9 – 11.5					
<b>SECTION V - OPTIONAL HAZARD RATINGS IDENTIFICATION</b>					
<b>HAZARD RATING</b> 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT **SEE SECTION IV			<b>National Fire Protection Association (NFPA)</b>  <b>FIRE</b> <u> 3 </u> <b>REACTIVITY</b> <u> 0 </u> .  <b>HEALTH</b> <u> 2 </u> <b>SPECIAL HAZARDS</b> <u> None </u> .		

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SECTION VI - REACTIVITY AND STABILITY DATA			
STABILITY	UNSTABLE	STABLE	X
INCOMPATIBILITY (Materials to Avoid) Strong acids, bases, oxidizing agents, selected amines with alkali metals and halogens.			
HAZARDOUS DECOMPOSITION OR BY PRODUCTS Carbon Monoxide, Carbon Dioxide			
HAZARDOUS POLYMERIZATION	MAY OCCUR	WILL NOT OCCUR	X
		CONDITIONS TO AVOID	
May be ignited by heat, sparks, flame or static electricity.			
SECTION VII - HEALTH HAZARD DATA			
ROUTES OF ENTRY	INHALATION?	YES	SKIN? YES
			INGESTION? YES
			EYES? YES
HEALTH HAZARDS	ACUTE	X	
	CHRONIC	X	
CARCINOGENICITY: No			
SIGN AND SYMPTOMS OF EXPOSURE			
Headache, Dizziness, Drowsiness, Fatigue, Irregular Heartbeat, Skin and Eye Irritation.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE			
EMERGENCY AND FIRST AID PROCEDURES			
Ingestion: Contact Physician or Poison Control Immediately.			
Inhalation: Remove to fresh air. Administer Oxygen or Artificial Respiration if Necessary.			
Eye Contact: Flush with large amounts of water. If irritation persists, contact Physician.			
Skin: Wash with soap and water.			
SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED			
Wipe up with floor absorbent. Transfer to hood. Prevent run-off to sewers.			
Eliminate all sources of ignition. Ventilate to maintain exposure below PEL's. Use sand or other material to dam or contain spills. If large spill, notify appropriate state and local agencies.			
WASTE DISPOSAL METHODS Dispose of product in accordance with local, county, state and federal regulations.			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE			
Avoid eye contact with eyes. Keep container closed. Use with adequate ventilation. Keep away from sparks, flame and heat sources and store in a cool area. Avoid inhalation of vapors and personal contact with liquid product.			
Use good personal hygiene practices.			
OTHER PRECAUTIONS			
Keep Container Closed When Not In Use. Containers should be disposed of in an environmentally safe manner in accordance with Governmental Regulations.			
SECTION IX - CONTROL MEASURES			
RESPIRATORY PROTECTION (SPECIFY TYPE) Depending on the Airborne concentration, use a Respirator with appropriate NIOSH approved cartridge or supplied air equipment.		PROTECTIVE GLOVES	
		Impervious Gloves	
VENTILATION	LOCAL EXHAUST Supplemental (if needed)	SPECIAL None	
	MECHANICAL (GENERAL) To maintain exposure below PEL's	OTHER None	
EYE PROTECTION		OTHER PROTECTIVE CLOTHING OR EQUIPMENT	
Chemical splash goggles, or approved eye protection.		Chemical Apron/Eye bath/Safety Shower	
WORK HYGIENIC PRACTICES Wash thoroughly after handling.			
SECTION X - TRANSPORTATION INFORMATION			
DOT PROPER SHIPPING NAME Coating Solution		DOT HAZARD CLASS 3	
DOT UN NUMBER UN 1139		DOT PACKING GROUP II	
IATA PROPER SHIPPING NAME Coating Solution		IATA HAZARD CLASS 3	
IATA UN NUMBER UN 1139		IATA PACKING GROUP II	
SECTION XI - 313 SUPPLIER NOTIFICATION			
THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT -TO-KNOW ACT OF 1986, 40 CFR 372, (see table on page 1 for CAS # and percent by weight). Hexane, Toluene, and Methyl Ethyl Ketone			
WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.			

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Prepared By: Mark Kenow

THE INFORMATION PROVIDED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS OBTAINED FROM ITS USE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND THE VENDORS CONTROL AND SINCE SUBSEQUENT DATA MAY SUGGEST MODIFICATION OF THE INFORMATION, VENDOR ASSUMES NO RESPONSIBILITY FOR THE RESULTS OF ITS USE.



\*Estimated  
 N/A-Not Applicable  
 N/R-Not Restricted  
 N/E-Not Established

## MATERIAL SAFETY DATA SHEET

<b>NOTE: BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.</b>					
<b>IDENTITY</b> (As shown on Label or package) HCF F-688 / F-688'S'			<b>PART NO.</b> IF APPLICABLE		
<b>SECTION I</b>					
<b>MANUFACTURER'S NAME</b> Plasti Dip International, Inc.			<b>EMERGENCY PHONE No.</b> USA only: 1-800-424-9300 INT'L: 703-527-3887		
<b>ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)</b> 3920 Pheasant Ridge Drive			<b>REVISION #</b> 0003		
Blaine, MN 55449			<b>MANUFACTURER'S PHONE No. FOR INFORMATION</b> 1-763-785-2156		
			<b>DATE MSDS WAS PREPARED</b> May 25, 2007		
<b>SECTION II - HAZARDOUS INGREDIENTS INFORMATION. All Health Hazards which comprise 1% or greater of the composition and all carcinogens if 0.1% of the composition or greater.</b>					
<b>HAZARDOUS COMPONENTS CHEMICAL and IDENTITY AND COMMON NAME (S)</b>	<b>% Wt. (OPTIONAL)</b>	<b>CAS NO.</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OTHER LIMITS RECOMMEND</b>
Water	55.6 – 57.4	7732-18-5	N/A	N/A	N/A
Kaolin	7.2 – 7.3	1332-58-7	5mg/m <sup>3</sup>	2mg/m <sup>3</sup>	None
2-Butoxyethanol	5.0 - 5.1	111-76-2	25 ppm	25 ppm	Skin
<b>SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS</b>					
<b>BOILING POINT</b> 212 °F	<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1)</b> 1.0 - 1.1		<b>APPROXIMATE WEIGHT PER GALLON (LBS)</b> 8.86		
<b>VAPOR PRESSURE</b> 17.5 mmHg @ 20 °C	<b>VAPOR DENSITY (AIR = 1)</b> Less than 1		<b>EVAPORATION RATE (BUTYL ACETATE =1)</b> Less than 1		
<b>SOLUBILITY IN WATER</b> Dilutable	<b>% VOLATILE</b> 5.1	<b>VOC LBS./GAL</b> 0.5	<b>OTHER (IF ANY)</b> None		
<b>APPEARANCE AND ODOR</b> Syrupy liquid - Various colors - Slight ammonia odor					
<b>SECTION IV-FIRE AND EXPLOSION HAZARD DATA</b>					
<b>FLASH POINT (METHOD USED)</b> N/A		<b>FLAMMABLE LIMITS</b>	<b>LEL</b> N/A	<b>UEL</b> N/A	
<b>EXTINGUISHING MEDIA</b> Carbon Dioxide, Dry Chemical, or Foam					
<b>SPECIAL FIRE FIGHTING PROCEDURES</b> Self contained breathing apparatus with a full face piece, operated in pressure demand or other positive pressure mode.					
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b> Material can splatter above 100°C / 212°F. Polymer film can burn.					
<b>HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMPOSITION</b> Carbon Dioxide and/or Carbon Monoxide.					
<b>EXPLOSIVE LIMITS (% BY VOLUME IN AIR)</b> N/A					
<b>SECTION V - OPTIONAL HAZARD RATINGS IDENTIFICATION</b>					
<b>HAZARD RATING</b> 4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT 0-INSIGNIFICANT **SEE SECTION IV		<b>National Fire Protection Association (NFPA)</b>  <b>FIRE</b> <u>  0  </u> <b>REACTIVITY</b> <u>  0  </u> .  <b>HEALTH</b> <u>  1  </u> <b>SPECIAL HAZARDS</b> <u>  0  </u> .			

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<b>SECTION VI - REACTIVITY AND STABILITY DATA</b>			
<b>STABILITY</b>	UNSTABLE STABLE X	<b>CONDITIONS TO AVOID</b> None	
<b>INCOMPATIBILITY (Materials to Avoid)</b> Oxidizing Material			
<b>HAZARDOUS DECOMPOSITION OR BY PRODUCTS</b> Carbon Dioxide and/or Carbon Monoxide			
<b>HAZARDOUS POLYMERIZATION</b>	MAY OCCUR WILL NOT OCCUR X	<b>CONDITIONS TO AVOID</b> None	
<b>SECTION VII - HEALTH HAZARD DATA</b>			
<b>ROUTES OF ENTRY</b>	<b>INHALATION?</b> yes	<b>SKIN?</b> yes	<b>INGESTION?</b> yes <b>EYES?</b> yes
<b>HEALTH HAZARDS</b>	ACUTE X CHRONIC X		
<b>CARCINOGENICITY:</b> No			
<b>SIGNS AND SYMPTOMS OF EXPOSURE</b>			
Inhalation: Headache, nausea, and irritation of nose, throat and lungs. Skin: Irritating upon repeated or prolonged contact. Eyes: Slightly irritating to eyes.			
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE</b> None Known			
<b>EMERGENCY AND FIRST AID PROCEDURES</b>			
Inhalation: Remove to fresh air. Skin: Wash areas with soap and water. Eyes: Flush thoroughly with water. See a physician if irritation persists. Ingestion: If swallowed, give 2 glasses of water. See a Physician immediately or contact poison control center.			
<b>SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE</b>			
<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b>			
Dike and contain spill with inert material (sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal. Keep run-offs out of municipal sewers and open bodies of water.			
<b>WASTE DISPOSAL METHOD</b> Dispose of in accordance with local, state, federal regulations.			
<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE</b>			
Avoid contact with eyes. Keep container closed. Use with adequate ventilation.			
<b>OTHER PRECAUTIONS</b>			
Keep from freezing - product may coagulate.			
<b>SECTION IX - CONTROL MEASURES</b>			
<b>RESPIRATORY PROTECTION (SPECIFY TYPE)</b> Depending on the Airborne concentration, use a Respirator with appropriate NIOSH approved cartridge or supplied air equipment.		<b>PROTECTIVE GLOVES</b> Impervious Gloves	
<b>VENTILATION</b>	<b>LOCAL EXHAUST</b> Supplemental (if needed)	<b>SPECIAL</b> None	
	<b>MECHANICAL (GENERAL)</b> To maintain exposure below PEL's	<b>OTHER</b> None	
<b>EYE PROTECTION</b> Chemical splash goggles, or approved eye protection.		<b>OTHER PROTECTIVE CLOTHING OR EQUIPMENT</b> Chemical Apron/Eye bath/Safety Shower	
<b>WORK HYGIENIC PRACTICES</b> Wash thoroughly after handling.			
<b>SECTION X - TRANSPORTATION INFORMATION (Optional)</b>			
<b>DOT PROPER SHIPPING NAME</b> Not Regulated		<b>DOT HAZARD CLASS</b> N/A	
<b>DOT UN NUMBER</b> N/A		<b>DOT PACKING GROUP</b> N/A	
<b>IATA PROPER SHIPPING NAME</b> Not Regulated		<b>IATA HAZARD CLASS</b> N/A	
<b>IATA UN NUMBER</b> N/A		<b>IATA PACKING GROUP</b> N/A	
<b>SECTION XI - 313 SUPPLIER NOTIFICATION</b>			
<b>THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT -TO-KNOW ACT OF 1986, 40 CFR 372, (see table on page 1 for CAS # and percent by weight).</b> 2-butoxyethanol			


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Prepared By: Mark Kenow

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הציפויים המתקדמים בעולם

פלסטי דיפ ישראל בע"מ דליות 20 יוקנעם עילית, 2066525 ת.ד.7345 

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