

# 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) VLP 1 oz. only (F-836)				<b>PART NO.</b> IF APPLICABLE		
<b>SECTION I</b>						
<b>MANUFACTURER'S NAME</b> Plasti Dip International Inc.				<b>EMERGENCY</b> PHONE No. 1-800-424-9300		
<b>ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)</b> 3920 Pheasant Ridge Drive  Blaine, MN 55449			<b>REVISION #</b> 0001			
			<b>MANUFACTURER'S PHONE</b> No. FOR INFORMATION 1-763-785-2156			
			<b>DATE MSDS</b> WAS PREPARED March 18, 2002			
<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>
Tetrahydrofuran		35.6	109-99-9	200 ppm	200 ppm	None
Methyl Ethyl Ketone		29.2	78-93-3	200 ppm	200 ppm	None
Cyclohexanone		2.7	108-94-1	50 ppm	25 ppm	None
Resins		23.6	N/A	N/A	N/A	None
<b>SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS</b>						
<b>BOILING POINT</b> 151 - 175°F		<b>Specific Gravity (H2O =1)</b> 0.94		<b>APPROXIMATE WEIGHT PER GALLON (LBS)</b> 7.89		
<b>VAPOR PRESSURE</b> 143 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> 67.4 <b>VOC LBS./GAL</b> 5.3		<b>OTHER (IF ANY)</b>		
<b>APPEARANCE AND ODOR</b> Clear liquid, strong solvent odor.						
<b>SECTION IV-FIRE AND EXPLOSION HAZARD DATA</b>						
<b>FLASH POINT (METHOD USED)</b> 6.0 °F TCC		<b>FLAMMABLE LIMITS</b> 1.3 – 11.8		<b>LEL</b> 1.3	<b>UEL</b> 11.8	
<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. Hydrogen chloride and organic hydrocarbons.						
<b>EXPLOSIVE LIMITS (% BY VOLUME IN AIR)</b> 1.3 – 11.8						
<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>			

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			
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			
SIGNS 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 P.E.L.'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 or gas mask with appropriate NIOSH approved cartridge and connister, or supplied air equipment.		PROTECTIVE GLOVES Impervious	
VENTILATION	LOCAL EXHAUST Supplemental (if needed)	SPECIAL None	
	MECHANICAL (GENERAL) To maintain exposure below P.E.L.'s	OTHER None	
EYE PROTECTION Chemical splash goggles or approved eye protection.	OTHER PROTECTIVE CLOTHING OR EQUIPMENT Impervious Clothing/Boots as needed.		
WORK HYGIENIC PRACTICES Wash thoroughly after handling.			
SECTION X - TRANSPORTATION INFORMATION			
D.O.T. PROPER SHIPPING NAME Coating Solution		D.O.T. HAZARD CLASS 3, PG II	
IF A "CONSUMER COMMODITY ORM-D", WHAT IS THE HAZARD CLASS		3, PG II	
D.O.T. I.D. No. (N/U OR N/A) UN1139			
IATA PROPER SHIPPING NAME Coating Solution		IATA HAZARD CLASS 3, PG II	IMO No. None
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). 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.			

This is the "back" when printed in duplex. Page 2 of 2 pages if not duplex.

Prepared By: \_\_\_\_\_

Approved By: \_\_\_\_\_

\*Estimate  
 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) VLP excludes 1 oz. (F-631)				<b>PART NO.</b> IF APPLICABLE		
<b>SECTION I</b>						
<b>MANUFACTURER'S NAME</b> Plasti Dip International Inc.				<b>EMERGENCY PHONE No.</b> 1-800-424-9300		
<b>ADDRESS (NUMBER, STREET, CITY, STATE AND ZIP CODE)</b> 3920 Pheasant Ridge Drive			<b>REVISION #</b> 0002			
Blaine, MN 55449			<b>MANUFACTURER'S PHONE No. FOR INFORMATION</b> 1-763-785-2156			
			<b>DATE MSDS WAS PREPARED</b> October 7, 2003			
<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>
Tetrahydrofuran		60.3	109-99-9	200 ppm	200 ppm	None
Methyl Ethyl Ketone		18.9	78-93-3	200 ppm	200 ppm	None
Acetic Acid Ethenyl Ester, Polymer with Chloroethene		8.5	9003-22-9	N/E	N/E	None
Ethene, chloro-, homopolymer		5.5	9002-86-2	N/E	N/E	None
Cyclohexanone		2.4	108-94-1	50 ppm	25 ppm	None
<b>SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS</b>						
<b>BOILING POINT</b> 151 – 175°F		<b>Specific Gravity (H2O =1)</b> 0.90 – 0.92		<b>APPROXIMATE WEIGHT PER GALLON (LBS)</b> 7.65		
<b>VAPOR PRESSURE</b> 143 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> 81.6 <b>VOC LBS./GAL</b> 6.2		<b>OTHER (IF ANY)</b>		
<b>APPEARANCE AND ODOR</b> Clear liquid, strong solvent odor						
<b>SECTION IV-FIRE AND EXPLOSION HAZARD DATA</b>						
<b>FLASH POINT (METHOD USED)</b> 6.0°F TCC		<b>FLAMMABLE LIMITS</b> 1.3 – 11.8		<b>LEL</b> 1.3	<b>UEL</b> 11.8	
<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. Hydrogen chloride and organic hydrocarbons.						
<b>EXPLOSIVE LIMITS (% BY VOLUME IN AIR)</b> 1.3 – 11.8						
<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>			

This is the "front" when printed in duplex. Page 1 of 2 pages if not duplex.

<b>SECTION VI - REACTIVITY AND STABILITY DATA</b>			
<b>STABILITY</b>	UNSTABLE	STABLE X	
<b>INCOMPATIBILITY (Materials to Avoid)</b> Strong acids, bases, oxidizing agents, selected amines with alkali metals and halogens.			
<b>HAZARDOUS DECOMPOSITION OR BY PRODUCTS</b>			
<b>HAZARDOUS POLYMERIZATION</b>	MAY OCCUR	<b>CONDITIONS TO AVOID</b>	
	WILL NOT OCCUR X	May be ignited by heat, sparks, flame or static electricity	
<b>SECTION VII - HEALTH HAZARD DATA</b>			
<b>ROUTES OF ENTRY</b>	INHALATION? YES	SKIN? YES	INGESTION? YES EYES? YES
<b>HEALTH HAZARDS</b>	ACUTE X	CHRONIC X	
<b>CARCINOGENICITY:</b> No			
<b>SIGNS AND SYMPTOMS OF EXPOSURE</b>	Headache, Dizziness, Drowsiness, Fatigue, Irregular Heartbeat, Skin and Eye Irritation.		
<b>MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE</b>			
<b>EMERGENCY AND FIRST AID PROCEDURES</b>	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.		
<b>SECTION VIII - PRECAUTIONS FOR SAFE HANDLING AND USE</b>			
<b>STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED</b>	Wipe up with floor absorbent. Transfer to hood. Prevent run-off to sewers. Eliminate all sources of ignition. Ventilate to maintain exposure below P.E.L.'s. Use sand or other material to dam or contain Spills. If large spill, notify appropriate state and local agencies.		
<b>WASTE DISPOSAL METHODS</b>	Dispose of product in accordance with local, county, state and federal regulations.		
<b>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE</b>	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.		
<b>OTHER PRECAUTIONS</b>	Keep Container Closed When Not In Use. Containers should be disposed of in an environmentally safe manner in accordance with Governmental Regulations.		
<b>SECTION IX - CONTROL MEASURES</b>			
<b>RESPIRATORY PROTECTION (SPECIFY TYPE)</b>	Depending on the airborne concentration, use a Respirator or gas mask with appropriate NIOSH approved cartridge and cannister, or supplied air equipment.	<b>PROTECTIVE GLOVES</b> Impervious	
<b>VENTILATION</b>	<b>LOCAL EXHAUST</b> Supplemental (if needed)	<b>SPECIAL</b> None	<b>OTHER</b> None
	<b>MECHANICAL (GENERAL)</b>	To maintain exposure below P.E.L.'s	
<b>EYE PROTECTION</b>	Chemical splash goggles or approved eye protection.	<b>OTHER PROTECTIVE CLOTHING OR EQUIPMENT</b> Impervious Clothing/Boots as needed.	
<b>WORK HYGIENIC PRACTICES</b>	Wash thoroughly after handling.		
<b>SECTION X - TRANSPORTATION INFORMATION</b>			
<b>D.O.T. PROPER SHIPPING NAME</b>	Coating Solution (UN 1139)	<b>D.O.T. HAZARD CLASS</b>	3, PG II
<b>IATA PROPER SHIPPING NAME</b>	Coating Solution (UN 1139)	<b>IATA HAZARD CLASS</b>	3, PG II
<b>DOT EXCEPTION</b>	See DOT 49CFR 172.102, New Special Provision 149 AND DOT 49CFR 171.8 FOR CONSUMER COMMODITY, ORM-D		
<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> Methyl Ethyl Ketone			
<b>WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.</b>			

This is the "back" when printed in duplex. Page 2 of 2 pages if not duplex.

Prepared By: \_\_\_\_\_

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.