Performix Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 07/28/2016 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	:	VLP
Product form	:	Mixture
Product code	:	60509

1.2. Relevant identified uses of the substance or mixture and uses advised against

Details of the supplier of the safety data sheet 1.3.

Plasti Dip International, Inc. 3920 Pheasant Ridge Drive Blaine, MN 55449 Phone - (763) 785-2156

1.4. Emergency telephone number

Emergency number

: CHEMTREC: 1-800-424-9300 (US); 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Lig. 2	H225
	H302
Acute Tox. 4 (Oral)	
Eye Irrit. 2A	H319
Carc. 2	H351
STOT SE 3	H336
STOT SE 3	H335
STOT RE 2	H373

2.2. Label elements

GHS-US labelling

Signal word (GHS-US)

Hazard statements (GHS-US)

Hazard pictograms (GHS-US)



: Danger

- H225 Highly flammable liquid and vapour
- H302 Harmful if swallowed
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H351 Suspected of causing cancer
- H373 May cause damage to organs (respiratory system, lungs) through prolonged or
- repeated exposure
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P210 Keep away from heat, open flames, sparks. No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical, lighting, ventilating equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P260 Do not breathe mist, vapours
- P264 Wash hands, forearms and face thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear eye protection, face protection, protective clothing, protective gloves
- P301+P312 If swallowed: Call a doctor, a POISON CENTER if you feel unwell

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P308+P313 If exposed or concerned: Get medical advice/attention
- P312 Call a doctor, a POISON CENTER if you feel unwell
- P314 Get medical advice/attention if you feel unwell



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P330 - Rinse mouth P337+P313 - If eye irritation persists: Get medical advice/attention P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish P403+P233+P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool P405 - Store locked up

P501 - Dispose of contents/container to licensed waste handling facility

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Tetrahydrofuran	(CAS No) 109-99-9	30 - 60*
Methyl ethyl ketone	(CAS No) 78-93-3	10 - 30*
Polyvinyl chloride	(CAS No) 9002-86-2	3 - 7*
cyclohexanone	(CAS No) 108-94-1	1 - 5*

*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.	
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.	
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.	
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.	
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.	
4.2. Most important symptoms and effect	ts, both acute and delayed	
Symptoms/injuries	: Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.	
Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: May cause skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	
Symptoms/injuries after ingestion	: Harmful if swallowed.	
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure.	

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5:	Firefighting measures	

5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam.
5.2. Special hazards arising from the s	substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Explosion hazard	: Heating may cause an explosion.
Reactivity	: No dangerous reactions known under normal conditions of use.
5.3. Advice for firefighters	
Precautionary measures fire	 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion.

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Protection during firefighting

: Do not enter fire area without proper protective equipment, including respiratory protection.

6.1.	Personal precautions, protectiv	equipment and emergency procedures
Genera	I measures	: Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crew properly equipped with respiratory equipment and full chemical protective gear (see Section 8)
6.1.1.	For non-emergency personnel	
Protecti	ve equipment	: Wear Protective equipment as described in Section 8.
Emerge	ency procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protecti	ve equipment	: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
6.2.	Environmental precautions	
Prevent	t entry to sewers and public waters. I	tify authorities if liquid enters sewers or public waters. Avoid release to the environment.
6.3.	Methods and material for conta	ment and cleaning up
For con	tainment	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Sweep or shovel spills into appropriate container for disposal.
Method	s for cleaning up	Eliminate ignition sources. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Wash spill area thoroughly with plenty of soap and water.Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).
6.4.	Reference to other sections	
See Se	See Sections 8 and 13.	
SECTION 7: Handling and storage		
7.1.	Precautions for safe handling	
Precaut	tions for safe handling	Do not handle until all safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide good ventilatio in process area to prevent formation of vapour. Wash hands and other exposed areas with mil soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a dry, cool and well-ventilated place. Keep the container tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tetrahydrofuran (109-99-9)		
• • •	50	
ACGIH TWA (ppm)	50	
ACGIH STEL (ppm)	100	
OSHA PEL (TWA) (mg/m ³)	590	
OSHA PEL (TWA) (ppm)	200	
OSHA PEL (STEL) (mg/m ³)	735	
OSHA PEL (STEL) (ppm)	250	
Methyl ethyl ketone (78-93-3)		
ACGIH TWA (ppm)	200	
ACGIH STEL (ppm)	300	
OSHA PEL (TWA) (mg/m³)	590	
OSHA PEL (TWA) (ppm)	200	
OSHA PEL (STEL) (mg/m³)	885	

8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

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Personal protective equipment	: Gloves. Protective goggles. Protective clothing.
Hand protection	: Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl Suitable gloves for this specific application can be recommended by the glove supplier.
Eye protection	: Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.
Skin and body protection	: Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
Respiratory protection	: Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties			
Physical state	: Liquid		
Color	: Clear.		
Odor	: Strong. Solvent.		
Odor Threshold	: No data available		
pH	: No data available		
Relative evaporation rate (butylacetate=1)	: >1		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: 66 - 79 °C (151 - 175 °F	-)	
Flash point	: -14 °C (6 °F) (TCC)		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: 143 mm Hg (20 °C)		
Relative vapour density at 20 °C	: Heavier than air		
Relative density	: 0.91 - 0.93 (H ₂ O = 1)		
Solubility	: Water: Insoluble		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties : No data available			
Oxidising properties	: No data available		
Explosive limits	: 1.3 - 11.8 vol %		
9.2. Other information			
VOC content	: 80 - 81 % (6.2 LBS./GA	L)	

SECTION 10: Stability and reactivity

10).1.	Reactivity	
Nc	o dang	erous reactions known under normal conditions of use.	
10	.2.	Chemical stability	
Sta	able u	nder recommended handling and storage conditions (see section 7).	
10	.3.	Possibility of hazardous reactions	
No	one kn	own.	
10	.4.	Conditions to avoid	
He	eat. Sp	arks. Open flame. Static electricity. Ignition sources.	
10	.5.	Incompatible materials	
St	rong a	cids. Bases. Oxidizing agent. selected amines with alkali metals and halogens.	
10	.6.	Hazardous decomposition products	
Th	nermal	decomposition generates : Carbon oxides (CO, CO ₂).	
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SECTION 11: Toxicological informati	on	
11.1. Information on toxicological effects		
Acute toxicity	: Oral: Harmful if swallowed.	
,		
Tetrahydrofuran (109-99-9) LC50 inhalation rat (mg/l)	5309 mg/l/4h	
	5509 mg///4m	
cyclohexanone (108-94-1)	4544	
LD50 oral rat	1544 mg/kg	
LD50 dermal rat LC50 inhalation rat (ppm)	947 mg/kg 8000 ppm/4h	
	: Not classified	
Skin corrosion/irritation		
Serious eye damage/irritation Respiratory or skin sensitisation	: Causes serious eye damage. : Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified.	
Carcinogenicity	. Not classified.	
Vinyl acetate (108-05-4)		
IARC group	2B - Possibly carcinogenic to humans	
Vinyl chloride (75-01-4)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. May cause respiratory irritation.	
Specific target organ toxicity (repeated	: May cause damage to organs (respiratory system, lungs) through prolonged or repeated	
exposure)	exposure.	
Aspiration hazard	: Not classified	
Symptoms/injuries after inhalation	: May cause respiratory irritation. May cause drowsiness or dizziness.	
Symptoms/injuries after skin contact	: May cause skin irritation.	
Symptoms/injuries after eye contact	: Causes serious eye irritation.	
Symptoms/injuries after ingestion	: Harmful if swallowed.	
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure.	
SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: No information available.	
12.2. Persistence and degradability		
F631 VLP		
Persistence and degradability	No information available.	
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12.3. Bioaccumulative potential		
F631 VLP		
Bioaccumulative potential	No information available.	
12.4. Mobility in soil		
F631 VLP		
Ecology - soil	No information available.	
12.5. Other adverse effects Other adverse effects	: No data available.	
Other adverse effects		
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities.	
	No discharge to surface waters is allowed without an NPDES permit.	
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the	
	product to be released into the environment.	
SECTION 14: Transport information		
-		
In accordance with DOT		
Transport document description	: UN1139 Coating solution (Contains: Tetrahydrofuran, Methyl Ethyl Ketone), 3, II	
UN-No.(DOT)	: 1139	
07/20/2016	E621 //LD	

F631 VLP

# Safety Data Sheet

DOT NA no.	: UN1139		
Proper Shipping Name (DOT)	: Coating solution		
	Contains: Tetrahydrofuran, Methyl Ethyl Ketone		
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120		
Hazard labels (DOT)	: 3 - Flammable liquid		
Packing group (DOT)	: II - Medium Danger		
DOT Quantity Limitations Passenger aircraft/ra	5		
(49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (4 CFR 175.75)	9 : 60 L		
DOT Vessel Stowage Location	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded		
Additional information			
Other information	: No supplementary information available.		
No additional information available Air transport No additional information available	n		
No additional information available Air transport No additional information available SECTION 15: Regulatory information	n		
No additional information available Air transport No additional information available SECTION 15: Regulatory information	n		
No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations F631 VLP All chemical substances in this product are list or are exempt	ted in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory		
No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations F631 VLP All chemical substances in this product are list			
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No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations F631 VLP All chemical substances in this product are list or are exempt SARA Section 311/312 Hazard Classes	ted in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory Delayed (chronic) health hazard Immediate (acute) health hazard		
No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations F631 VLP All chemical substances in this product are list or are exempt SARA Section 311/312 Hazard Classes Tetrahydrofuran (109-99-9)	ted in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard		
No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations F631 VLP All chemical substances in this product are list or are exempt SARA Section 311/312 Hazard Classes Tetrahydrofuran (109-99-9) CERCLA RQ	ted in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard 1000 lb		
No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations F631 VLP All chemical substances in this product are list or are exempt SARA Section 311/312 Hazard Classes Tetrahydrofuran (109-99-9) CERCLA RQ Section 313	ted in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard 1000 lb		
All chemical substances in this product are lis or are exempt SARA Section 311/312 Hazard Classes Tetrahydrofuran (109-99-9) CERCLA RQ Section 313 Methyl ethyl ketone (78-93-3)	ted in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard 1000 lb Not Listed on US SARA Section 313		
No additional information available Air transport No additional information available SECTION 15: Regulatory information 15.1. US Federal regulations F631 VLP All chemical substances in this product are list or are exempt SARA Section 311/312 Hazard Classes Tetrahydrofuran (109-99-9) CERCLA RQ Section 313 Methyl ethyl ketone (78-93-3) CERCLA RQ	ted in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard 1000 lb Not Listed on US SARA Section 313 1000 lb		

#### 15.2. International regulations

No additional information available.

### 15.3. US State regulations

Section 313

WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

Vinyl chloride (75-01-4)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	3 μg/day

Not Listed on US SARA Section 313

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Tetrahydrofuran (109-99-9)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - ŘTK (Right to Know) - Environmental Hazard List
Methyl ethyl ketone (78-93-3)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - ŘTK (Right to Know) List
Vinyl acetate (108-05-4)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Vinyl chloride (75-01-4)
U.S Massachusetts - Right To Know List
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - ŘTK (Right to Know) - Environmental Hazard List
Polyvinyl chloride (9002-86-2)
U.S New Jersey - Right to Know Hazardous Substance List
cyclohexanone (108-94-1)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Massachusetts - Right To Know List
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List

## **SECTION 16: Other information**

Version 1.0 (28 May 2015)	Created GHS complaint SDS
Version 2.0(28 Jul 2016)	Updated composition/classification
Other information :	Author: BCS.

NFPA health hazard	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	<ul> <li>4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn readily.</li> </ul>
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2
Flammability	: 4
Physical	: 0
Personal Protection	:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product