Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 05/28/2015 Supersedes: 03/22/2012 Version: 1.0

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

#### Product identifier

: VLP Product name Product code : 61Z09

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

#### 1.3. Details of the supplier of the safety data sheet

Plasti Dip International, Inc. 3920 Pheasant Ridge Drive Blaine, MN 55449

Phone - (763) 785-2156 Website: plastidip.com

#### 1.4. Emergency telephone number

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

#### **SECTION 2: Hazards identification**

### Classification of the substance or mixture

#### **GHS-US** classification

Flam. Liq. 2 H225 Eye Irrit. 2A H319 Carc. 2 H351 STOT SE 3 H335

#### Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)







Signal word (GHS-US) Danger

: H225 - Highly flammable liquid and vapour Hazard statements (GHS-US)

H319 - Causes serious eye irritation H335 - May cause respiratory irritation H351 - Suspected of causing cancer

: P201 - Obtain special instructions before use Precautionary statements (GHS-US)

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

P261 - Avoid breathing vapours, mist

P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection, face protection, protective clothing, protective gloves

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

P337+P313 - If eye irritation persists: Get medical advice/attention

P370+P378 - In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam to

extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

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

#### Other hazards

No additional information available

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#### 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

### **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. If pain, blinking, or irritation develops or persists, get

medical attention. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison

control center or medical professional. Get medical attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

Chronic symptoms : Suspected of causing cancer.

# 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 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.

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

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews

properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

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### 6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : 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.

Methods 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 Sections 8 and 13.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions 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 ventilation in process area to prevent formation of vapour. Wash hands and other exposed areas with mild 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)		
ACGIH TWA (ppm)	50	
ACGIH STEL (ppm)	100	
OSHA PEL (TWA) (mg/m³)	590	
OSHA PEL (TWA) (ppm)	200	
OSHA PEL (STEL) (mg/m³)	735	
OSHA PEL (STEL) (ppm)	250	
Methyl ethyl ketone (78-93-3)	1	

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
OSHA PEL (STEL) (ppm)	300

### 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.

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.

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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 66 - 79 °C (151 - 175 °F) Boiling point -14 °C (6 °F) (TCC) Flash point 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  $0.91 - 0.93 (H_2O = 1)$ Solubility Water: Insoluble No data available Log Pow 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./GAL)

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

## 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

## 10.3. Possibility of hazardous reactions

None known.

## 10.4. Conditions to avoid

Avoid contact with: Ignition sources. Incompatible materials.

# 10.5. Incompatible materials

Strong acids. Bases. Oxidizing agent. selected amines with alkali metals and halogens.

# 10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>).

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Tetrahydrofuran (109-99-9)	
LC50 inhalation rat (mg/l)	5309 mg/l/4h
Skin corrosion/irritation :	Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

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Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

Aspiration hazard

: Not classified

Not classified

Symptoms/injuries after inhalation May cause respiratory irritation. Symptoms/injuries after skin contact May cause skin irritation. Symptoms/injuries after eye contact Causes serious eye irritation. Symptoms/injuries after ingestion : May cause gastrointestinal irritation. Chronic symptoms : Suspected of causing cancer.

# **SECTION 12: Ecological information**

#### 12.1. **Toxicity**

: No information available. Ecology - general

#### 12.2. Persistence and degradability

VLP (F631)	
Persistence and degradability	No information available.

#### 12.3. Bioaccumulative potential

VLP (F631)	
Bioaccumulative potential	No information available.

#### 12.4. Mobility in soil

VLP (F631)		
Ecology - soil	No information available.	

#### Other adverse effects 12.5.

Other adverse effects : No data available.

# **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), 3, II

UN-No.(DOT) : 1139 DOT NA no. UN1139 Proper Shipping Name (DOT) Coating solution

Contains: Tetrahydrofuran

Department of Transportation (DOT) Hazard

Classes

: 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/rail

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

**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" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

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#### **Additional information**

Other information : No supplementary information available.

### Transport by sea

No additional information available

### Air transport

No additional information available

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

VLP (F631)		
All components of this product are listed on the TSCA Inventory or are exempt		
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard Fire hazard	

Tetrahydrofuran (109-99-9)		
Section 302 (EHS) TPQ		
Section 304 EHS RQ		
CERCLA RQ	1000	lb
Section 313	Not Listed on US SARA Section 313	

Methyl ethyl ketone (78-93-3)		
Section 302 (EHS) TPQ		
Section 304 EHS RQ		
CERCLA RQ	1000 lb	
Section 313	Not Listed on US SARA Section 313	

cyclohexanone (108-94-1)		
Section 302 (EHS) TPQ		
Section 304 EHS RQ		
CERCLA RQ	1000	lb
Section 313	Not Listed on US SARA Section 313	

# 15.2. International regulations

No additional information available.

# 15.3. US State regulations

### California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

# Tetrahydrofuran (109-99-9)

- 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

### 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 RTK (Right to Know) 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

# Polyvinyl chloride (9002-86-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

# **SECTION 16: Other information**

Indication of changes : Revision 1.0: New SDS Created.

Revision date : 5/28/2015 Other information : Author: BCS.

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NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

medical attention is given.

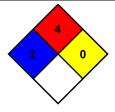
NFPA fire hazard : 4 - Will rapidly or completely vaporize at normal pressure and temperature, or is readily dispersed in air and will burn

: 0 - Normally stable, even under fire exposure conditions, NFPA reactivity

and are not reactive with water.



Health : 2\* : 4 Flammability 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

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