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# SAFETY DATA SHEET

### Section 1. Identification

**Product Name: Diphenylvinylphosphine** 

Liquid **Product Type:** 2155-96-6 **CAS Number: Product Number:** P5966

Ereztech LLC **Product Manufacturer:** 

11555 Medlock Bridge Road, Suite 100

Johns Creek, GA 30097

(888) 658-1221 **Product Information:** 

In Case of an Emergency: CHEMTREC: 1-800-424-9300 (USA);

> +1 703-527-3887 (International); CCN836180 \*\*\* Contact manufacturer for all non-emergency calls.

### Section 2. Hazards Identification

Appearance/Odor: Yellow liquid, odor not determined.

Classification: Not classified according to Globally Harmonized System of

Classification and Labeling of Chemicals (GHS).

**GHS Label Elements** 

**Hazard Pictograms:** None.

**Signal Word:** Not classified. **Hazard Statements:** Not classified.

This material is not considered hazardous by the OSHA Hazard OSHA/HCS Status:

Communication Standard (29 CFR 1910.1200).

**Hazards Not Otherwise** Classified (HNOC):

None identified.

# Section 3. Composition/Information on Ingredients

Substances

**Formula** : C<sub>14</sub>H<sub>13</sub>P

: Ethenyldiphenylphosphine; Vinyldiphenylphosphine; **Synonyms** 

Ethenyldiphenylphosphane.

: 212.23 g/mol **Molecular Weight** 

: 2155-96-6 CAS-No.

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# Section 3. Composition/Information on Ingredients

Ingredient Name	%	CAS Number
<u>Diphenylvinylphosphine</u>	≥ 97	2155-96-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First Aid Measures

**Description of Necessary First Aid Measures** 

Move out of dangerous area. Call a POISON CENTER or doctor/physician **General Advice:** 

immediately if symptoms develop or if you feel unwell. Show this safety data

sheet to the doctor in attendance.

**Eye Contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and

> lower eyelids. Rinse for a minimum of 15 minutes. Check for and remove any contact lenses after initial rinse period and continue rinsing for an additional 15 minutes. Keep eyes wide open during rinsing process. Call a POISON CENTER

or doctor/physician immediately.

**Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off contaminated

skin with soap and plenty of water. Seek medical attention if irritation develops

and persists, if symptoms develop or if you feel unwell.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for

> breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

waistband. Call a POISON CENTER or doctor/physician immediately.

Rinse mouth. Do NOT induce vomiting. Remove dentures if any. If vomiting Ingestion:

> occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in

recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Call a physician or POISON CONTROL CENTER if symptoms develop or if you feel

unwell.

Most Important Symptoms/Effects, Acute and Delayed Potential Acute Health Effects

May cause eye irritation. Symptoms may include watering, redness, pain, **Eye Contact:** 

swelling of the eyelids, inability to keep eye open and blurred vison.

May be irritating to respiratory system. Symptoms may include coughing, sore Inhalation:

throat, nausea, headache, vomiting.

Symptoms may include an itching or burning sensation, reddening and swelling. Skin Contact:

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### Section 4. First Aid Measures

Ingestion: Product may be irritating to mucous membranes. Symptoms may include

cramping, localized pain, headache, nausea and vomiting.

Ingestion: No specific symptoms identified.

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

**Notes to Physician:** Treat symptomatically.

**Specific Treatments:** No specific treatment indicated.

**Protection of First Responders:** No action taken shall be taken involving any personal risk

> without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See Toxicological Information (Section 11)

### Section 5. Fire Fighting Measures

None identified. **General Hazards:** 

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide. Cool closed containers exposed to fire with

water spray.

None identified.

None identified. **Unsuitable Extinguishing Media:** 

**Unusual Fire and** 

**Explosion Hazards:** 

Carbon oxides (CO<sub>x</sub>) and oxides of phosphorus. **Product of Combustion:** 

**Protection of Firefighters:** Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin or eyes. Avoid breathing sprays,

mists, vapors and gases.

Fire-fighters should wear appropriate protection equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in a positive pressure mode.

### Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel: No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep

unnecessary and unprotected personnel from entering. Do not

touch or walk through spilled material.

## Section 6. Accidental Release Measures

For Non-Emergency Personnel (cont.)

Avoid the formation and inhalation of sprays, mists, vapors, and gases. Provide adequate ventilation. Wear respiratory protection. Put on appropriate personal protective equipment.

For Emergency Responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".

**Environmental Precautions:** 

Do not allow dispersal of spilled material and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for Containment** 

**General:** Move containers from spill area if safe to do so.

**Small Spill:** 

Contain and collect spillage with a dry, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor.

Large Spill:

Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with a dry, absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth) and place in dry, sealed container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Note: see Section 1 for emergency contact information and Section 13 for waste disposal

### Section 7. Handling and Storage

**Precautions:** 

Product is air/moisture sensitive; handle under a dry, inert gas. Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Keep container tightly sealed. Avoid contact with skin, eyes and clothing. Avoid the formation and inhalation of sprays, mists, vapors and gases. Do not ingest. Avoid prolonged exposure. Ensure adequate ventilation.

# Section 7. Handling and Storage

Protective Measures: Put on appropriate personal protective equipment (see Section

8). Keep in the original container kept tightly closed when not in use. Empty containers retain product residue and can be

hazardous. Do not reuse container.

**General Occupational Hygiene:** Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers

should wash hands and face before eating, drinking or smoking. Remove contaminated clothing and protective

equipment before entering eating areas. See also Section 8 for

additional information on hygiene measures.

**Safe Storage Conditions:** Product is air/moisture sensitive; store under an inert gas.

Nitrogen with less than 5 ppm each of moisture and oxygen is recommended. Store in original container protected from direct

sunlight in a dry and well-ventilated area, away from

incompatible materials noted above and food and drink. Keep container tightly closed and sealed until ready for use. Store

locked up.

### Section 8. Exposure Controls/Personal Protection

**Introductory Remarks:** 

These recommendations provide general guidance for handling this product. Because work environments and material handling practices vary, safety procedures should be developed for each

intended application. While developing safe handling

procedures, do not overlook the need to clean equipment and conduct regular repairs. Waste from these procedures should

be handled in accordance with Section 13.

Occupational Exposure Limits: Product contains no substances with occupational exposure

limit values.

**Engineering Controls:** Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100

feet per minute. Provide an eyewash/shower station.

**Environmental Exposure Controls:** Emissions from ventilation or work process equipment should

be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable

levels.

### Section 8. Exposure Controls/Personal Protection

#### **Individual Protection Measures**

**Hygiene Measures:** 

Avoid all unnecessary exposure. Wash all exposed skin (hands, forearms and face) thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Remove all soiled and contaminated clothing immediately. Do not inhale sprays, mists, vapors or gases. Avoid contact with eyes and skin. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/Face Protection:** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to sprays and mists. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles, faceshield (8-inch minimum). Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

**Skin Protection Hand Protection:** 

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical-resistant gloves.

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. For full contact, use Neoprene or nitrile rubber.

**Other Skin Protection:** 

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Exposure Controls/Personal Protection** Section 8.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are

appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator

cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and

approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

# Section 9. Physical and Chemical Properties

Liquid. **Physical State:** Color: Yellow.

No data available. Odor: No data available. **Odor Threshold:** pH: No data available. No data available. **Melting Point:** 

104 °C (219 °F) at 0.33 hPa - lit. **Boiling Point:** Flash Point: > 113 °C (> 235.4 °F) – closed cup.

No data available. **Auto-ignition temperature:** 

1.067 g/ml at 25 °C (77 °F). **Specific Gravity:** 

Water Solubility: Insoluble.

# Section 10. Stability and Reactivity

Product is air/moisture sensitive. Reactivity:

This product is stable when stored under a dry, inert **Chemical Stability:** 

atmosphere and away from heat. Nitrogen containing less

than 5 ppm each moisture and air is recommended.

**Conditions to Avoid:** Exposure to air, moisture and water.

**Incompatible Materials:** Air, water, moisture and strong oxidizing agents.

**Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous

decomposition products should not be produced. Hazardous decomposition products formed under fire

conditions: carbon oxides (CO<sub>x</sub>) and oxides of

phosphorus. Irritating and potentially harmful fumes may

be generated during exposure to air, elevated temperatures or open flame. In the event of a fire: see

section 5.

# Section 10. Stability and Reactivity

**Possibility of Hazardous Reactions:** 

Under normal conditions of storage and use noted above, hazardous reactions will not occur. Hazardous reactions or instability may occur under certain conditions of storage or use.

# Section 11. Toxicological Information

### Information on Toxicological Effects

**Acute Toxicity** 

Irritation/Corrosion

Sensitization

**Germ Cell Mutagenicity** 

Carcinogenity

**IARC** 

**ACGIH** 

NTP

**OSHA** 

#### Reproductive Toxicity

**Teratogenicity** 

Specific Target Organ Toxicity (Single Exposure)

Specific Target Organ Toxicity (Repeated Exposure)

**Aspiration Hazard** 

Information on the Likely Routes of Exposure

- : No specific data available.
- : No specific data available. Product may cause skin irritation and eye irritation.
- : No specific data available.
- : No specific data available.
- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.
- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.
- : No component of this product present at levels greater than 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.
- : This product is not expected to cause reproductive or developmental effects.
- : No specific data available.
- : Inhalation may cause respiratory tract irritation.
- : No specific data available.
- : No specific data available.
- : Common routes of exposure: inhalation, dermal (failure to use skin protection), eye (failure to use safety eyewear). Less common: ingestion (failure to employ recommended hygiene measures (e.g. smoking or eating after handling product without washing hands or using hand protection).

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### Section 11. Toxicological Information

**Additional Information** 

: To the best of our knowledge, the chemical, physical and toxicological properties of this product have not been thoroughly investigated.

#### Section 12. **Ecological Information**

**Numerical Measures of Toxicity** 

**Toxicity to Fish** 

**Toxicity to Daphnia and Other** 

**Aquatic Invertebrates** 

**Toxicity to Algae** 

Persistence and Degradability

**Biodegradability** 

**Bioaccumulative Potential** 

**Mobility in Soil** 

**Other Adverse Effects** 

: No specific data available.

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

# Section 13. Disposal Considerations

**Waste Treatment Methods** 

**Product** 

Dispose of in accordance with local, state, and federal regulations. Refer to 40 CFR 260-299 for complete waste disposal regulations. Consult your local, state, or federal agency before disposing of any chemicals.

**Contaminated Packaging** 

: Empty containers retain product residue (sprays, mists, vapors and gases) and can be dangerous. Dispose of as unused product.

# Section 14. Transport Information

	DOT	IMDG	IATA
UN Number	Not regulated	Not regulated	Not regulated
UN Proper	-	-	-
Shipping Name			
Transport Hazard	-	-	-
Classes			
Packing Group	-	-	-
Environmental	-	-	-
Hazards			

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### Section 14. Transport Information

**Special Precautions for User** 

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transporting in Bulk According:

to Annex II of MARPOL 73/78

and the IBC Code

Not applicable.

# Section 15. Regulatory Information

#### **TSCA (Toxic Substance Control Act):**

This product is not listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory). Use of this product is restricted to research and development only. This product must be used under the supervision of a technically qualified individual as defined by the TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes.

### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

No components of this product are subject to SARA 311/312 reporting requirements.

#### **Massachusetts Right to Know Components**

No components are subject to Massachusetts Right to Know Act.

#### Pennsylvania Right to Know Components

No components are subject to Pennsylvania Right to Know Act.

#### **New Jersey Right to Know Components**

No components are subject to New Jersey Right to Know Act.

#### **California Proposition 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Section 16. Other Information

### National Fire Protection Association (U.S.A.)



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Copyright © 2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### **HMIS Rating**

HEALTH	0
FLAMMABILITY	1
PHYSICAL HAZARD	0

#### **History**

Date of Printing : 2/19/2021

Date of Issue/Date of Revision : 2/19/2021

Date of Previous Issue : None.

**References** : None available.

#### **Abbreviations and Acronyms**

ACGIH: American Conference of Governmental Industrial Hygienists.

ATE: Acute Toxicity Estimate

CAS: Chemical Abstracts Service (division of the American Chemical Society).

DOT: US Department of Transportation.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

HMIS: Hazardous Materials Identification System.

HNOC: Hazards Not Otherwise Classified.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

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### Section 16. Other Information

### Abbreviations and Acronyms (cont.)

IDLH: Immediately Dangerous to Life or Health (US National Institute for Occupation Health and Safety (NIOSH)).

IMDG: International Maritime Code for Dangerous Goods.

NFPA: National Fire Protection Association.

NIOSH: National Institute of Occupational Safety and Health.

NTP: National Toxicology Program.

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limits. REL: Recommended Exposure Limits.

SARA: Superfund Amendments and Reauthorization Act.

STOT: Specific Target Organ Toxicity. TLV: Threshold Limit Values (ACGIH).

TWA: Time Weighted Average. VOC: Volatile Organic Compound.

#### **Disclaimer**

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Ereztech LLC regarding the accuracy or completeness of the information. Ereztech LLC shall not be liable for any damages resulting from the handling, or from the contact with the above product.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

BRIDGING CHEMICAL GAPS