

## Section 1: Product Identification

### Product Identifiers

Product Name: 1,5-Bis(diphenylphosphino)pentane, 98%

Product #: 300054

CAS #: 27721-02-4

### Identified uses of the substance or mixture and uses advised against

Identified Uses: Laboratory chemicals, Synthesis of substances

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

Company: Aspira Scientific, Inc.

521 Cottonwood Dr.

Milpitas, CA, 95035, USA

Telephone: 1 408-571-1100

Fax: 1 408-571-1100

### Emergency telephone number

Emergency phone number: 1 408-571-1100

## Section 2: Hazards Identification

### Classification of the substance or mixture

#### GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

#### GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard codes: H315-H319-H335

Hazard statements: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Precautionary codes: P261-P280-P305+P351+P338-P304+P340-P405-P501A

Precautionary statements: Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

### **Section 3: Composition and Information on Ingredients**

#### **Substance**

Ingredient: Title Compound

Formula: C<sub>29</sub>H<sub>30</sub>P<sub>2</sub>

Molecular weight: 440.51

CAS #: 27721-02-4

EC #: No data available.

### **Section 4: First Aid Measures**

**Eye Exposure:** Immediately rinse eyes with water for at least 10-15 minutes. Keep eye lids open if needed. Seek physician assistance immediately. Show this safety data sheet to the doctor in attendance.

**Skin Exposure:** Immediately wash the affected area with soap and water. Remove contaminated clothing if needed and wash before reuse. Seek physician assistance immediately. Show this safety data sheet to the doctor in attendance.

**Inhalation:** Keep affected individual warm and at rest in a comfortable position with access to fresh air. Closely monitor for signs of respiratory problems. Seek physician assistance immediately. Show this safety data sheet to the doctor in attendance.

**Ingestion:** Rinse mouth out with water. Do not give anything by mouth if affected individual is unconscious. Immediately seek physician assistance. Call poison center if needed. Show this safety data sheet to the doctor in attendance.

### **Section 5: Fire Fighting Measures**

**Extinguishing Medium:** Carbon dioxide, dry power, or foam.

**Fire Fighting Procedures:** Fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**Hazardous Combustion and Decomposition Products:** The product may emit toxic fumes if involved in a fire.

### **Section 6: Accidental Release Measures**

**Spill and Leak Procedures:** Keep unprotected persons away. Small spills can be mixed with vermiculite or sodium carbonate and sweep up without creating dust. Keep away from ignition sources. Then place into a suitable disposal container and dispose of according to government regulations.

### **Section 7: Handling and Storage**

**Handling and Storage:** Store in a tightly sealed container under an inert atmosphere. Keep in a cool dry place away from heat and direct sunlight. Ensure good ventilation at the workplace.

## Section 8: Exposure Controls and Personal Protection

### Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Exposure controls

**Eye Protection:** Always wear approved safety glasses / face protection when handling a chemical substance in the laboratory. Remove contact lenses if possible.

**Skin Protection:** Wear protective clothing, gloves or face protection. Use government-approved equipment under appropriate standards. Inspect before use. Consult with glove manufacturer to determine the proper type of glove.

**Ventilation:** Always handle the material in an efficient fume hood.

**Respirator:** Use a respirator if ventilation is not available. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

**Color and Form:** white to off-white solid

**Melting Point:** 46-48 °C

**Boiling Point:** No data available.

**Flash Point:** No data available.

**Density:** No data available.

**Vapor Density:** No data available.

**Vapor Pressure:** No data available.

**Autoignition Temperature:** No data available.

**Specific Gravity:** No data available.

**Odor:** No data available.

**Solubility in Water:** Insoluble

## Section 10: Stability and Reactivity

**Stability:** Stable under recommended storage conditions.

**Hazardous Reactions:** No data available.

**Conditions to Avoid:** Handle the material according to specifications.

**Incompatibility:** Oxidizing agents and halogens.

**Decomposition Products:** Carbon oxides, phosphorus oxides, organic fumes.

## Section 11: Toxicological Information

**Carcinogenic Effects:** No data available.

**Mutagenic Effects:** No data available.

**Teratogenic Effects:** No data available.

**RTECS Data:** No information available in the RTECS files.

## Section 12: Ecological Information

**Ecological Information:** No data available.

## Section 13: Disposal Considerations

**Disposal:** Dispose material according to local, state and federal regulations.

## Section 14: Transportation

**DOT (US):** Not dangerous goods.

**IMDG:** Not dangerous goods.

**UN ID Number (IATA):** Not dangerous goods.

## Section 15: Regulatory Information

**TSCA:** Not listed in the TSCA inventory.

**SARA (Title 302):** Substance not listed

**SARA (Title 313):** Substance not listed

**SARA 311/312 Hazards:** No SARA Hazards

### Massachusetts Right to Know Components

1,5-Bis(diphenylphosphino)pentane

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### Pennsylvania Right To Know Components

1,5-Bis(diphenylphosphino)pentane

CAS-No.  
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### New Jersey Right To Know Components

1,5-Bis(diphenylphosphino)pentane

CAS-No.  
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### California Prop. 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**

**Disclaimer:** The information above is believed to be accurate and represents the information currently available to Aspira Scientific. However, we make no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.

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