

## Section 1: Product Identification

### Product Identifiers

Product Name: 1,1'-Bis(dichlorophosphino)ferrocene, 98%

Product #: 300022

CAS #: 142691-70-1

### 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 corrosion (Category 1B), H314; Serious eye damage (Category 1), H318

#### GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard codes: H314-H318

Hazard statements: Causes severe skin burns and eye damage. Causes serious eye damage.

Precautionary codes: P260-P303+P361+P353-P305+P351+P338-P301+P330+P331-P405-P501A

Precautionary statements: Do not breathe dust/fume/gas/mist/vapours/spray. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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: C10H8Cl4FeP2

Molecular weight: 387.78

CAS #: 142691-70-1

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:** yellow powdr.

**Melting Point:** 67-71 °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:** Water, oxidizing agents and halogens.

**Decomposition Products:** Carbon oxides, hydrogen chloride, iron oxides, phosphorus oxides, organic fumes.

## **Section 11: Toxicological Information**

**Carcinogenic Effects:** No data available.

**Mutagenic Effects:** No data available.

**Tetratogenic 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): UN number: 1759; Class: 8; Packing group: II. Proper shipping name: Corrosive solid, n.o.s. (1,1'-Bis(dichlorophosphino)ferrocene). Reportable Quantity (RQ): No data available. Marine pollutant: No. Poison Inhalation Hazard: No.

IMDG: UN number: 1759; Class: 8; Packing group: II. Proper shipping name: Corrosive solid, n.o.s. (1,1'-Bis(dichlorophosphino)ferrocene). Marine pollutant: No.

UN ID Number (IATA): UN number: 1759; Class: 8; Packing group: II. Proper shipping name: Corrosive solid, n.o.s. (1,1'-Bis(dichlorophosphino)ferrocene).

Section 15: Regulatory Information

TSCA: Not listed in theTSCA 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

	CAS-No.
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Pennsylvania Right To Know Components

	CAS-No.
1,1'-Bis(dichlorophosphino)ferrocene	142691-70-1

New Jersey Right To Know Components

	CAS-No.
1,1'-Bis(dichlorophosphino)ferrocene	142691-70-1

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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