

**SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING****1.1 Product Identifiers**

Product Name	Zirconium(IV) Hydrogen Phosphate
Synonyms	Odyssey Polymers Zirc O-5 PPA
REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
CAS No.	13772-29-7

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

Identified Uses	Polymer Compounds, Manufacture of substances, Lubricants
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**1.3. Details of the supplier of the safety data sheet**

Company	Odyssey Polymers LLC 433 Shell Road, Building L Carneys Point, NJ 08069
Emergency telephone number	1 (888) 265-4455
Email	technical@odysseypolymers.com

**SECTION 2 HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture**

Not a hazardous substance or mixture according to the GHS Regulation (EC) No. 1272/2008

**2.2. Label elements**

Not a hazardous substance or mixture according to the GHS Regulation (EC) No. 1272/2008

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances**

Chemical characterization	Product does not burn
Formula	$\alpha\text{-Zr(HPO}_4)_2\text{H}_2\text{O}$
Molecular Weight	301.19
CAS No.	13772-29-7
EC No.	237-401-7

No components need to be disclosed according to the applicable regulations

**SECTION 4 FIRST AID MEASURES**

**4.1. Description of first aid measures**

Eye Contact	<ul style="list-style-type: none"><li>Flush eyes with water as a precaution.</li></ul>
Skin Contact	<ul style="list-style-type: none"><li>Wash off with soap and plenty of water.</li></ul>
Inhalation	<ul style="list-style-type: none"><li>If breathed in, move person into fresh air. If not breathing, give artificial respiration.</li></ul>
Ingestion	<ul style="list-style-type: none"><li>Never give anything by mouth to an unconscious person. Rinse mouth with water.</li></ul>

**4.2. Most important symptoms / effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11

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

No data available

**SECTION 5 FIREFIGHTING MEASURES**

5.1. Suitable extinguishing media	<ul style="list-style-type: none"><li>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</li></ul>
5.2. Special hazards arising from the substance or mixture	<ul style="list-style-type: none"><li>Phosphorous oxides.</li><li>Nature of decomposition products not known.</li><li>Oxides of phosphorus</li><li>Zirconium oxides</li></ul>

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### Section 5 Firefighting Measures – Continued

5.3. Advice for firefighters	<ul style="list-style-type: none"><li>Wear self-contained breathing apparatus for firefighting if necessary</li></ul>
5.4. Further information	<ul style="list-style-type: none"><li>The product itself does not burn.</li></ul>

### SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures	<ul style="list-style-type: none"><li>Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see Section 8.</li></ul>
6.2. Environmental precautions	<ul style="list-style-type: none"><li>Do not let product enter drains.</li></ul>
6.3. Methods and materials for containment and cleaning up	<ul style="list-style-type: none"><li>Sweep up and shovel.</li><li>Keep in suitable, closed containers for disposal.</li></ul>
6.4. Reference to other sections	<ul style="list-style-type: none"><li>For disposal see Section 13.</li></ul>

### SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling	<ul style="list-style-type: none"><li>Avoid dust formation. Avoid breathing vapors, mist or gas. For personal protection see Section 8.</li></ul>
7.2. Conditions for safe storage, including any incompatibilities	<ul style="list-style-type: none"><li>Store in cool place.</li><li>Keep container tightly closed in dry and well-ventilated place.</li></ul>
7.3. Specific end use(s)	<ul style="list-style-type: none"><li>Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated</li></ul>

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Components with workplace control parameters

Ingredient	CAS No.	Value Form of Exposure	Control Parameters
Zirconium bis(hydrogen phosphate)	13772-29-7	STEL	10 mg/m <sup>3</sup>
		TWA	5 mg/m <sup>3</sup>
		TWA	5 mg/m <sup>3</sup>
		STEL	10 mg/m <sup>3</sup>

8.2 Exposure controls, appropriate engineering controls, and general industrial hygiene practice

Eye/Face Protection	<ul style="list-style-type: none"><li>Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).</li></ul>
Skin Protection	<ul style="list-style-type: none"><li>Handle with gloves.</li><li>Gloves must be inspected prior to use.</li><li>Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.</li><li>Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.</li><li>Wash and dry hands.</li><li>The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</li></ul>
Body Protection	<ul style="list-style-type: none"><li>Choose body protection in relation to its type, to the concentration, and amount of dangerous substances, and to the specific work-place.</li><li>The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</li></ul>
Respiratory Protection	<ul style="list-style-type: none"><li>Respiratory protection is not required. Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</li></ul>
Control of Environmental Exposure	<ul style="list-style-type: none"><li>Do not let product enter drains</li></ul>

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Appearance	Form: Powder	Vapor Pressure	No data available.
Odor	No data available.	Vapor Density	No data available.
Odor Threshold	No data available.	Relative Density	3.3 g/mL at 25°C
pH	3 - 5	Water solubility	Insoluble
Melting/Freezing Point	No data available.	Partition coefficient: n-octanol/water	No data available.
Initial Boiling Point and Boiling Range	No data available.	Autoignition Temperature	No data available.
Flash Point	Not applicable.	Decomposition Temperature	No data available.
Evaporation Rate	No data available.	Viscosity	No data available.
Flammability (solid, gas)	No data available.	Explosive Properties	No data available.
Lower and Upper Explosive (Flammable) Limits	No data available.	Oxidizing Properties	No data available.

9.2. Other Safety Information

No data available.

SECTION 10 STABILITY AND REACTIVITY

10.1. Reactivity	<ul style="list-style-type: none"><li>No specific test data related to reactivity available for this product or its ingredients.</li></ul>
10.2. Chemical Stability	<ul style="list-style-type: none"><li>The product is stable under recommended storage conditions</li></ul>
10.3. Possibility of Hazardous Reactions	<ul style="list-style-type: none"><li>No data available</li></ul>
10.4. Conditions to Avoid	<ul style="list-style-type: none"><li>No data available</li></ul>
10.5. Incompatible Materials	<ul style="list-style-type: none"><li>Strong oxidizing agents</li></ul>

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**Section 10 Stability and Reactivity -- continued**

**10.6. Hazardous  
Decomposition Products**

- Other decomposition products: No data available
- In the event of fire: see Section 5

**SECTION 11 TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute Toxicity**

No data available.

**Irritation / Corrosion**

**Skin:** No data available

**Eyes:** No data available.

**Respiratory:** No data available.

**Sensitization**

**Skin:** No data available.

**Respiratory:** No data available.

**Mutagenicity**

No data available.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive Toxicity**

No data available.

**Specific target organ toxicity (single exposure)**

No data available.

**Specific target organ toxicity (repeated exposure)**

No data available.

**Aspiration Hazard**

No data available.

**Additional Information**

RTECS: Not available

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SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity	<ul style="list-style-type: none"><li>No data available</li></ul>
12.2. Persistence and Degradability	<ul style="list-style-type: none"><li>No data available</li></ul>
12.3. Bioaccumulative Potential	<ul style="list-style-type: none"><li>No data available</li></ul>
12.4. Mobility in Soil	<ul style="list-style-type: none"><li>No data available</li></ul>
12.5. Results of PBT and vPvB assessment	<ul style="list-style-type: none"><li>This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</li></ul>
12.6. Other Adverse Effects	<ul style="list-style-type: none"><li>No data available</li></ul>

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product

SECTION 14 TRANSPORT INFORMATION

14.1. UN Number

ADR/RID: -

IMDG: -

IATA: -

14.2. UN Proper Shipping Name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3. Transport Hazard Class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4. Packaging Group

ADR/RID: -

IMDG: -

IATA: -

## Zirc O-5 Polymer Processing Additive

### 14.5. Environmental Hazards

ADR/RID: No

IMDG Marine Pollutant: No

IATA: No

### 14.6. Special Precautions for User

No data available

## SECTION 15 REGULATORY INFORMATION

This safety data sheet complies with the requirement of Regulation (EC) No. 453/2010

### 15.1. Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture

No data available.

### 15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16 OTHER INFORMATION

SDS Prepared on 4/10/2024 by: Odyssey Polymers Regulatory

**Disclaimer:** The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Odyssey Polymers, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.