

<a href="#">Zirconium Propionate</a>		<a href="#">Pricing &gt;</a>
<b>Linear Formula</b>	Zr(CH <sub>3</sub> CH <sub>2</sub> COO)	
<b>Pubchem CID</b>	174356	
<b>MDL Number</b>	N/A	
<b>EC No.</b>	281-897-8	
<b>IUPAC Name</b>	propanoate; zirconium(4+)	
<b>SMILES</b>	CCC(=O)[O-].[Zr+4]	
<b>Inchi Identifier</b>	InChI=1S/C3H6O2.Zr/c1-2-3(4)5;/h2H2,1H3,(H,4,5);/q;+4/p-1	
<b>Inchi Key</b>	TVCBSVKTTHLKQC-UHFFFAOYSA-M	
<b>Signal Word</b>	N/A	
<b>Hazard Statements</b>	N/A	
<b>Hazard Codes</b>	N/A	
<b>Risk Codes</b>	N/A	
<b>Safety Statements</b>	N/A	
<b>Transport Information</b>	N/A	

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## SAFETY DATA SHEET

Date Accessed: 05/04/2024

Date Revised: 01/15/2022

### SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #84057-80-7

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

GHS-US classification

Not classified

Label elements

GHS-US labeling

No labeling applicable

Other hazards

No additional information available

Unknown acute toxicity (GHS US)

No data available

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance type: Multi-constituent

Name: ZIRCONYL PROPIONATE

CAS No: 84057-80-7

EC no: 281-897-8

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## **SECTION 4. FIRST AID MEASURES**

First-aid measures general:

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures If inhaled:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures In case of skin contact:

Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures In case of eye contact:

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion:

Never give anything by mouth to an unconscious person.

Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries If inhaled:

May cause irritation to the respiratory tract.  
Symptoms/injuries In case of skin contact:  
May cause skin irritation.  
Symptoms/injuries In case of eye contact:  
May cause eye irritation.  
Symptoms/injuries after ingestion:  
No data available.  
Indication of any immediate medical attention and  
special treatment needed  
No additional information available

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## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media  
Suitable extinguishing media:  
Water spray. Foam. Carbon dioxide. Dry chemical.  
Unsuitable extinguishing media:  
None known.  
Special hazards arising from the substance or mixture  
Fire hazard:  
Irritating fumes and organic acid vapors may develop  
when material is exposed to elevated temperatures or  
open flame.  
Advice for firefighters  
Firefighting instructions:  
Exercise caution when fighting any chemical fire.  
Use water spray to cool exposed surfaces.  
Protection during firefighting:  
Do not enter fire area without proper protective  
equipment, including respiratory protection. Avoid  
contact with skin and eyes. Do not breathe dust.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and  
emergency procedures  
For non-emergency personnel  
Protective equipment:  
Use personal protective equipment.as described in  
Section 8.  
Emergency procedures:  
Evacuate unnecessary personnel.  
For emergency responders  
Protective equipment:  
Do not attempt to take action without suitable  
protective equipment. Equip cleanup crew with proper  
protection. For further information refer to section 8:  
"Exposure controls/personal protection".  
Environmental precautions  
Prevent entry to sewers and public waters. Notify

authorities if product enters sewers or public waters.  
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.

Methods for cleaning up:

Sweep or shovel spills into appropriate container for disposal.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

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## **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Precautions for safe handling:

Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local exhaust or general room ventilation to minimize exposure to dust.

Hygiene measures:

Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities conditions:

Keep container tightly closed.

Incompatible materials:

Water.

Storage area:

Store in a well-ventilated place. Store away from heat.

Specific end use(s)

No additional information available

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

Zirconium propionate (84057-80-7)

USA OSHA

OSHA PEL (TWA) (mg/m<sup>3</sup>)

15 mg/m<sup>3</sup> nuisance dust

Zirconyl dipropionate (Not found)

USA ACGIH

ACGIH TWA (mg/m<sup>3</sup>)

15 mg/m<sup>3</sup> nuisance dust

Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Neoprene or nitrile rubber gloves.

Eye protection:

Chemical goggles. Contact lenses should not be worn.

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Solid

Appearance: Solid.

Molecular mass: 253.36 g/mol

Color: Off-white.

Odor: No data available

Odor threshold: No data available

Refractive index: No data available

pH: No data available

Relative evaporation rate (butyl acetate=1): No data available

Melting point: 160 °C decomposes

Freezing point: No data available

Boiling point: No data available

Flash point: > 110 °C

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapor pressure: No data available

Relative vapor density at 20 °C: No data available

Relative density: No data available

VOC content: < 5 %

Solubility: Insoluble in water.

Organic solvent: Soluble: ethanol, ethyl acetate

Log Pow: No data available

Log Kow: No data available

Viscosity, Kinematic: No data available

Viscosity, Dynamic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

Explosion limits: No data available

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity

No additional information available

Chemical stability

Stable.

Possibility of hazardous reactions

Material decomposes slowly in contact with water.

Conditions to avoid

Open flame. Heat. Sparks.

Incompatible materials

Water.

Hazardous decomposition products

Organic acid vapors. Zirconium oxide fumes

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## SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not classified

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Potential Adverse human health effects and symptoms:

Note: Material may form zirconium oxides or zirconate polymers on the skin, eyes or in the lungs. Prolonged exposure to zirconium compounds can induce formation of granulomatous lesions in the lungs or on the skin.

Symptoms/injuries If inhaled: May cause irritation to the respiratory tract.

Symptoms/injuries In case of skin contact: May cause skin irritation.

Symptoms/injuries In case of eye contact: May cause eye irritation.

Symptoms/injuries after ingestion: No data available.

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## SECTION 12. ECOLOGICAL INFORMATION

Toxicity

No additional information available

Persistence and degradability  
No additional information available  
Bioaccumulative potential  
No additional information available  
Mobility in soil  
No additional information available  
Other adverse effects  
Effect on ozone layer:  
No additional information available  
Effect on the global warming:  
No known ecological damage caused by this product.

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods  
Sewage disposal recommendations:  
Do not dispose of waste into sewer.  
Waste disposal recommendations:  
Dispose in a safe manner in accordance with  
local/national regulations. Dispose of solid  
materials or residues at a licensed site.  
Ecology -waste materials:  
Avoid release to the environment.

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## **SECTION 14. EXPOSURE CONTROLS/PERSONAL PROTECTION**

UN number  
Not regulated for transport.  
UN proper shipping name  
N/A  
Additional information  
Other information:  
No supplementary information available.  
Transport by sea  
No additional information available  
Air transport  
No additional information available

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## **SECTION 15. REGULATORY INFORMATION**

US Federal regulations  
Zirconium propionate (84057-80-7)  
Listed on the United States TSCA (Toxic Substances  
Control Act) inventory  
Zirconyl dipropionate (Not found)  
Not listed on the United States TSCA (Toxic  
Substances Control Act) inventory

International regulations  
Zirconium propionate (84057-80-7)  
Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian NDSL (Non-Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on Turkish inventory of chemical  
Zirconyl dipropionate (Not found)  
US State regulations  
ZIRCONYL PROPIONATE  
(84057-80-7)  
U.S. -California -Proposition 65-Carcinogens List  
No  
U.S. -California -Proposition 65-Developmental Toxicity  
No  
U.S. -California -Proposition 65 -Reproductive Toxicity -Female  
No  
U.S. -California -Proposition 65 -Reproductive Toxicity -Male  
No

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## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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