

# SAFETY DATA SHEET

Date Accessed: 25/08/2023

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#### **SECTION 1. IDENTIFICATION**

**Product Name:** Zirconium(IV) Hydrogenphosphate

CAS #: 13772-29-7

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

### **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS-none

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

Substances

Chemical characterization: Product does not burn

Formula: H2O8P2Zr

Molecular weight: 283.18 g/mol

CAS-No.: 13772-29-7

EC-No.: 237-401-7

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

Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or

in section 11

Indication of any immediate medical attention and special treatment needed

No data available

# **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

The product itself does not burn.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing Vapors, mist or gas.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

# **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place. Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

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

#### **PROTECTION**

Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such

as NIOSH (US) or EN 166(EU).

Skin protection

Handle with 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.

**Body Protection** 

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are 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).

Control of environmental exposure

Do not let product enter drains.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance		, ' '							
Form: powder									
Odor	'	:							
No data available									
Odor Threshold	٠٠,								
No data available		.**							
pH No data available	'	i'	•						
Melting point/freezing po	int								
No data available									
Initial boiling point and bo	oiling ra	nge	'						
No data available		:							
Flash point									
N/A			: ' '						
Evaporation rate									
No data available		.''							
Flammability (solid, gas)	'	:							
No data available									
Upper/lower flammability or explosive limits									
No data availableVapor p	oressure	9							
No data available									
Vapor density	'	:							
No data available									
Relative density		**	:						
3,3 g/mL at 25 °C (77 °F)	), ;	. * *							
Water solubility		;'							
No data available		1	,						
Partition coefficient: n-oc	tanol/w	ater	;**						

Auto-ignition temperature

No data available										
Decomposition temperat										
No data available	'		,	'	:			: '		
Viscosity										
No data available			; ' '	* * *		!''	* * *		:	٠٠,
Explosive properties		. * *	'		. * *	'				. :
No data available										
Oxidizing properties		,	,			,			,	
No data available			: ' '						: '	
Other safety information		,		,	,			,		,
No data available	1 1			1 1	. * *			. * *		
					;			;		
SECTION 10. S	ГАВ	ILIT	YAND	REA	ACTIV	<b>VIT</b> Y				
Reactivity										
No data available										
Chemical stability	'	;		'	: '		'	;		
Stable under recommend	ded sto	orage c	onditions	5.						
Possibility of hazardous	reactio	ons	: ' '			: "	٠٠,		: ' '	٠٠,
No data available										
Conditions to avoid										
No data available	'	:	,		;			;		
Incompatible materials										
Strong oxidizing agents		* * *	!''	***	**,	!''	**,	**,	: ' '	
Hazardous decomposition	n proc	ducts								
Hazardous decomposition	n proc	ducts fo	rmed und	der fire	conditio	nsPhos	phorou	s oxides		
Hazardous decomposition	n proc	tucts fo	rmed und	der fire	conditio	ns. <b>-N</b> atur	e of de	composi	tion prod	lucts
not known.										
Hazardous decomposition										
oxides			'			'				. :

In the event of fire: see section 5

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell 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.

NTP:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA:

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or po

tential carcinogen by OSHA.

Reproductive toxicity

No data available 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 **SECTION 12. ECOLOGICAL INFORMATION** Toxicity ... No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### No data available

Other adverse effects

Results of PBT and vPvB assessment

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

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

Dispose of as unused product.

#### **SECTION 14. TRANSPORT INFORMATION**

DOT (US)

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

### **SECTION 15. REGULATORY INFORMATION**

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 SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Zirconium bis(hydrogen phosphate)

CAS-No.

13772-29-7

**Revision Date** 

1993-02-16

New Jersey Right To Know Components

Zirconium bis(hydrogen phosphate)

CAS-No.

13772-29-7

**Revision Date** 

1993-02-16

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**

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.