

Safety Data Sheet CXZR051 Date of issue: 11/20/2015 Revision date: 03/05/2019

Version: 1.1

SECTION 1: Identification				
1.1. Identification				
Product name	: ZIRCONYL DIMETHACR	TATE, nydrate		
Product code Product form	: CXZR051 : Substance			
	: Solid			
Physical state				
Formula	: C8H10O5Zr·xH2O			
Synonyms	: ZIRCONYL DIMETHACR DIHYDROXIDE: ZIRCON			IRCONIUM METHACRYLATE
Chemical family	: METAL COMPOUND		- ,	
1.2. Recommended use and restrictions	s on use			
Recommended use	: Chemical intermediate			
1.3. Supplier				
GELEST, INC.				
11 East Steel Road Morrisville, PA 19067				
<b>USA</b> T 215-547-1015 - F 215-547-2484 - (M-F): 8:00	AM - 5:30 PM EST			
info@gelest.com - www.gelest.com				
1.4. Emergency telephone number		0000 (1101)	7 0007 "	
Emergency number	: CHEMTREC: 1-800-424-	9300 (USA); +1 703-52	7-3887 (Int	ernational)
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or n	nixture			
GHS-US classification				
Serious eye damage/eye irritation Category 2A	H319 Causes serious eye	irritation		
Full text of H statements : see section 16				
2.2. GHS Label elements, including pred	cautionary statements			
GHS US labeling				
Hazard pictograms (GHS US)				
Signal word (GHS US)	: Warning			
Hazard statements (GHS US)	: H319 - Causes serious e	ve irritation		
Precautionary statements (GHS US)	: P280 - Wear protective g	•	n/eve nroter	tion/face protection
Trecautionary statements (Chio CO)	P264 - Wash hands thore		g/eye protec	
				r for several minutes. Remove
	contact lenses, if present P337+P313 - If eye irritat	-	-	tention
2.3. Hazards not otherwise classified (H	'	in a state a set of the	a a b corr a	a that all the second sector (1 - 1
Other hazards not contributing to the classification				n the skin, eyes or in the lungs. rmation of granulomatous lesions
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Informatic	on on ingredients			
3.1. Substances				
Substance type				
Name				
CAS-No.	: 84057-81-8	-		
Name		Product identifier	%	GHS-US classification
Zirconium methacrylate		(CAS-No.) 84057-81-8	90 - 100	Eye Irrit. 2A, H319
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## ZIRCONYL DIMETHACRYLATE, hydrate Safety Data Sheet

Full text of hazard classes and H-statements	: see section 16
3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measures	
4.1. Description of first aid measures	. Demove conteminated elething and shape. In space of assident as if you feel upwell, easily
First-aid measures general	<ul> <li>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 no available show packaging or label.</li> </ul>
First-aid measures after inhalation	: 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 after skin contact	: Wash with plenty of soap and water. Get medical advice/attention.
First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Get medical advice/attention.</li> <li>Never give anything by mouth to an unconscious person. Get medical advice/attention.</li> </ul>
-	
4.2. Most important symptoms and ef	
Symptoms/effects after inhalation Symptoms/effects after skin contact	: May cause irritation to the respiratory tract. : May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: No information available.
4.3. Immediate medical attention and	
No additional information available	
SECTION 5: Fire-fighting measure	s
5.1. Suitable (and unsuitable) extingu	
Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: None known.
5.2. Specific hazards arising from the	chemical
Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
5.3. Special protective equipment and	I precautions for fire-fighters
Firefighting instructions Protection during firefighting	<ul> <li>Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.</li> </ul>
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. 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".
6.2. Environmental precautions	
Notify authorities if product enters sewers or p	public waters. Prevent entry to sewers and public waters.
6.3. Methods and material for contain	ment 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.
6.4. Reference to other sections	
See Heading 8. Exposure controls and persor	·
SECTION 7: Handling and storage	
7.1. 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.
Print date: 04/10/2019	EN (English US) SDS ID: CXZR051 2/

Safety Data Sheet

7.2.		storage, including any incompatibiliti		
-	e conditions		htly closed. Store cold.	
Storage	e area	: Store in a well-ven	tilated place. Store away from heat.	
SECT	FION 8: Exposure	controls/personal protection		
8.1.	Control parameters			
Zirco	onium methacrylate (84	.057-81-8)		
OSH/		OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> nuisance dust	
		_1		
8.2.	Appropriate engine	ering controls		
Approp	priate engineering contro	Is : Provide local exha	ust or general room ventilation.	
8.3.	Individual protectio	on measures/Personal protective equip	oment	
Persor	nal protective equipme	ent:		
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				
·	otection:			
• •	cal goggles. Contact len	ses 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 (orange cartridge) respirator.				
SECT	<b>FION 9: Physical a</b>	nd chemical properties		
9.1. Information on basic physical and chemical properties				
Physica	al state	: Solid		
Appear		: Solid.		
	ular mass	: 293.39 g/mol		
Color		: Off-white.		
Odor		: No data available		

Viscosity, kinematic

Viscosity, dynamic

Odor threshold Refractive index

Melting point Freezing point

Boiling point Flash point

Vapor pressure

Relative density

% Volatiles

Solubility

Log Pow

Log Kow

Auto-ignition temperature Decomposition temperature

Flammability (solid, gas)

Relative vapor density at 20 °C

Relative evaporation rate (butyl acetate=1)

pН

: No data available

No data availableNo data available

No data available> 250 °C decomposes

No data availableNo data available

: No data available

: No data available

No data availableNo data available

: No data available

: No data available

No data availableNo data available

: Insoluble in water. Reacts slowly with water. Organic solvent:Soluble: ethyl acetate

: > 110 °C: No data available

: 1.69

: < 5 %

# ZIRCONYL DIMETHACRYLATE, hydrate Safety Data Sheet

	. Na data available
Explosive properties Oxidizing properties	: No data available : No data available
Explosion limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity No additional information available	
10.2. Chemical stability	
Stable.	
10.3. Possibility of hazardous reactions	
Material decomposes slowly in contact with water	
10.4. Conditions to avoid	
Heat. Open flame. Sparks.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
Organic acid vapors. Zirconium oxide fumes.	
<b>SECTION 11: Toxicological information</b>	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
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
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation.
Symptoms/effects after eye contact	Causes serious eye irritation.     No information available.
Symptoms/effects after ingestion Reason for classification	: Expert judgment
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on the ozone layer	: No additional information available
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Safety Data Sheet

<b>SECTION 13: Disposal consideratio</b>	hs		
13.1. Disposal methods			
Sewage disposal recommendations			
Product/Packaging disposal recommendations	: Dispose of solid materials or residues at a licensed site. Dispose in a safe manner in accordance with local/national regulations.		
Ecology - waste materials	: Avoid release to the environment.		
<b>SECTION 14: Transport information</b>			
14.1. UN number			
Not regulated for transport.			
14.2. UN proper shipping name			
Not applicable			
14.3. Additional information			
Other information	: No supplementary information available.		
Transport by sea			
No additional information available			
Air transport			
No additional information available			
SECTION 15: Regulatory informatio	n		
15.1. US Federal regulations			
ZIRCONYL DIMETHACRYLATE, hydrate (84	057-81-8)		
TSCA Exemption/Exclusion	CAUTION: This material is supplied for research and development		
	purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and		
	must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use		
	of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is		
	not permitted in the United States.		
Zirconium methacrylate (84057-81-8)			
Not listed on the United States TSCA (Toxic S	ubstances Control Act) inventory		
15.2. International regulations			
CANADA			
No additional information available			
EU-Regulations			
Zirconium methacrylate (84057-81-8)			
Listed on the EEC inventory EINECS (Europea	an Inventory of Existing Commercial Chemical Substances)		
National regulations			
No additional information available			
15.3. US State regulations			
	t contain any substances known to the state of California to cause cancer, developmental		
and/or reproductive harm			
SECTION 16: Other information			
Full text of H-phrases::			
H319	Causes serious eye irritation		
Abbreviations and acronyms	: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal		
	Concentrations: ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.		

Safety Data Sheet

Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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