Section 1: Identification

Product Identifier		
Product Name	Z4 Universal Investment, MG-Vest Investment	
Product Code	80005, 80011, 80016, 80082	
Relevant identified uses of the substance or mixture and uses advised against		
Recommended use	Used by dental and other professional as a casting and pressing investment	
Details of the supplier of the safety data sheet		
Manufacturer/Supplier	Vacalon Company Inc	
	12960 Stonecreek Dr Ste C	
	Pickerington, OH 43147 USA	
	www.vacalon.com info@vacalon.com	
Telephone (General)	614-577-1945	
Emergency telephone number		
Hazmat Services Inc (24 hour)	800-373-7542 (USA)	
	484-951-2432 (International)	

Section 2: Hazard Identification

Classification of the substance or mixture

Hazard Category Label elements Signal word Pictogram



H373

Prevention

- Specific target organ toxicity repeated exposure, Category 2, H373
- Warning
- GHS08

- May cause damage to lungs through prolonged or repeated inhalation.
- Do not breathe dust.
- Do not eat, drink or smoke when using this product
- In case of inadequate ventilation wear respiratory protection.

P260 P270 P284 **Response** P314 **Storage/Disposal** P501 **Other**

Precautionary statements

- Get medical attention/advice if you feel unwell.
- Dispose of contents/container according to regulations.
- Contains a small amount of crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica dust may cause delayed lung injury. (silicosis)

Section 3. Composition/Information on Ingredients

Chemical characterization	Mixture		
Components			
Chemical Name	Identifiers	%	Classification
Quartz (SiO2)	CAS: 14808-60-7	70% to 90%	STOT RE 2, H373
	EC Number: 238-878-4		
Magnesium Oxide	CAS: 1309-48-4	5% - 15%	
	EC Number: 215-171-9		

Amonium Phosphate	CAS: 7722-76-1	5% - 15%	
	EC Number: 231-764-5		

Section 4. First-Aid Measures

Description of first-aid measures

Description of first-aid me			
Inhalation	Move person to fresh air. If not breathing, give artificial respiration. Seek medical		
	attention if problems persist.		
Skin	Wash with water and soap. This product is not skin irritating.		
Eye	• Flush eyes with plenty of water and seek medical attention if problems persist.		
Ingestion	• Do not induce vomiting. Never give anything by mouth to an unconscious person.		
	Rinse mouth out immediately. When in doubt, or if symptoms are observed		
•• •• • • •	immediately get medical attention.		
Most important symptoms	and effects, both acute and delayed		
	No data available		
Indication of any immedia	te medical attention and special treatment needed		
	No data available		
Section 5. Firefighting Meas	sures		
<u>occurrent in a nongitting measure</u>	<u>54700</u>		
Extinguishing media			
Suitable extinguishing media	• The product itself will not support combustion. In a sustained fire use		
0 0	an extinguisher appropriate for surrounding area.		
Unsuitable extinguishing me			
Special hazards arising fro	om the substance or mixture		
	No data available		
Advice for firefighters	 The product itself will not burn. Fire fighters should wear complete 		
	protective clothing including self-contained breathing apparatus.		
Section 6. Accidental Relea	<u>se Measures</u>		
Personal propertions, pro-	testive equipment and emergency precedures		
Personal precautions, pro	tective equipment and emergency procedures		
	Avoid casing dust. Mean breathing protection to protect against the effects of dust		
	Wear breathing protection to protect against the effects of dust.		
Environmental propertion	Wear protective clothing.		
Environmental precaution			
	 Prevent further leakage or spillage if safe to do so. Avoid run off to waterways and sewers 		
Methods and material for	containment and cleaning up		
Containment/Clean-up meas			
Reference to other section			
Section 7. Handling and Sto	<u>orage</u>		
Precautions for safe hand			
Handling	 Handle and open with care. 		
	 Prevent formation of dust. 		
Information about protection			
	 Product is not flammable. 		
	 No special measures required. 		
	e, including any incompatibilities		
Technical measures and sto	orage conditions		

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Information about common storage area Additional storage information

No data available

• Store in cool, dry conditions in well sealed containers

Section 8. Exposure Controls/Personal Protection

Control parameters

Occupational Exposure Limit Values (a	s respirable dust)
Nuisance dusts	
OSHA PEL	• 5 mg/m³ (TWA)
ACGIH-TLV	
Metal Oxides (CAS No. 1309-48-4)	
OSHA-PEL	• 5 mg/m ³ (TWA)
Quartz (CAS No. 14808-60-7)	
OSHA-PEL	• 0.05 mg/m ³ (TWA)
ACGIH-TLV	• 0.025 mg/m ³ (TWA)
Cristobalite (CAS No. 14464-46-1)	
OSHA-PEL	• 0.05 mg/m ³ (TWA)
ACGIH-TLV	• 0.025 mg/m ³ (TWA)
Exposure Controls	
Engineering measures/controls	 Local ventilation should be designed and installed to keep exposure
	to respirable dust below 0.025 mg/m ³
Personal Protective Equipment	
Respiratory	 In case of insufficient ventilation, wear suitable respiratory
	equipment.
Eye/Face	 Wear chemical resistant safety glasses
Hands	 Wear appropriate chemical resistant gloves
Skin/Body	 Chemical resistant protective clothing or apron
General industrial hygiene	Wash hands before breaks and at the end of work
considerations	
Environmental exposure controls	 No data available

Section 9. Physical and Chemical Properties

Appearance/Description	White/Off-White Powder		
Odor	Odorless	Odor Threshold	No data available
pН	4 - 5 in contact with water	Specific Gravity	No data available
Melting Point/Range	No data available	Boiling Point/Range	No data available
Water Solubility	Insoluble	Viscosity	No data available
Partition coefficient: n-	No data available	Decomposition Temperature	No data available
octanol/water			
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Explosive Properties	Product is not explosive.
Flammability (solid, gas)	Product is not flammable		
Flash Point	No data available	UEL	No data available
Auto-ignition Temperature	No data available	LEL	No data available

Section 10. Stability and Reactivity

Reactivity Chemical Stability Possibility of hazardous reactions Conditions to avoid Incompatible materials

- No data available
- Stable at normal temperatures, may solidify when mixed with water
- No data available
- No data available
- No data available

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Hazardous decomposition products

• When preheating temperature reach 200°C slight ammonia odor is released.

Section 11. Toxicological Information

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Information on toxicological effects	
Likely routes of exposure	Inhalation
Acute/potential health effects	
Inhalation	 Inhalation of powder may result in irritation of the upper respiratory
	tract (mouth, nose, throat)
Skin	 Skin contact material may cause irritation or dryness.
Eyes	 Skin contact with dust may produce itching and temporary mechanical irritation.
Ingestion	 May cause temporary mechanical irritation of digestive tract, nausea,
	vomiting and diarrhea.
Sensitizing effects	No data available
Acute toxicity data	No data available
Delayed and immediate effects as w	ell as chronic effects from short and long term exposure
	 Prolonged/repeated inhalation of respirable crystalline silica dust may
	cause delayed lung injury (silicosis).
Carcinogenicity	No data available
Section 12. Ecological Information	
Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other information	Do not discharge product unmonitored into environment
	· Do not discharge product drinteriter and environment
Section 13. Disposal Considerations	
Waste treatment methods	
Recommendation	 Dispose of in accordance with all local, state and federal regulations.
Contaminated packaging	 Dispose of in accordance with all local, state and federal regulations.
Other	 Waste is not hazardous as defined by RCRA (40 CFR)
Section 14. Transport Information	
Land Transport (DOT)	
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard classes	Not applicable
Note	 Product is not dangerous according to regulations
Marine Transport	
UN number	Not applicable
UN proper shipping name	Not applicable
Transport hazard classes	Not applicable
Marine pollutant	• No
Note	 Product is not dangerous according to regulations
Air Transport	
UN/ID number	Not applicable

UN proper shipping name Transport hazard classes Note

- Not applicable
- Not applicable
- Product is not dangerous according to regulations

Section 15. Regulatory Information

	egulations/legislation specific for the substance or mixture
OSHA Hazardous Communications	 This product is considered hazardous
Standard (29CFR 1910.1200)	
SARA Hazard Categories	 Immediate and delayed health
TSCA	 This product contains materials listed in the TSCA inventory or otherwise complies with TSCA requirements.
CERCLA	 No reportable ingredients
US - SARA - Section 313	 No reportable ingredients
California Prop 65	• This product contains chemicals known by the state of California to cause cancer or birth defects.
Section 16. Other Information	

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Original Preparation Date	• 03/01/2015

Disclaimer

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