

### **SAFETY DATA SHEET**

### Product Name: MTApex Powder

1. Product and Company Identification							
Product Name: MTApex Powder	SDS Code Number: SDS22						
Trade Name & Synonyms: MTApex Powder	Last Revision: N/A Effective Date: 10/28/2021						
Chemical Name: no name assigned to mixture	Manufactured by: NuSmile Ltd.						
CAS. Number: None assigned	Address: 3315 W 12 <sup>th</sup> Street, Houston, TX 77008 USA Website: www.avalonbiomed.com						
Grades or Minor Variant Identities: None	Telephone Number: 713-861-0033; Int'l 1-800-346-5133						
Product Use (for Canada): Powder for mixing with MTApex Gel for dental use.	e-mail: info@avalonbiomed.com						

2. Hazard Identification

#### **Emergency Overview**

Dust may irritate throat and respiratory system and cause coughing. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Dust or splashes from the mixed powder may cause permanent eye damage. Dust has an irritating effect on moist skin. Prolonged contact may cause burns.

Routes of Exposure	Signs and Sympto	oms	Single, Repeated, or Lifetime Exposure	Severity (Mi Moderate, S	-	Acute and Chronic Health Effect(s) of hazardous compone			Target Organ(s)
Еуе	Can cause immed delayed irritation		Single	Mild		-		-	
Skin	Exposure may ca the skin with mild Discomfort or pa relied upon to ale a hazardous skin	d irritations. in cannot be ert a person to	Single	Mild		Acute irritation to skin and mucous membranes. Can aggravate other skin conditions.		-	
Inhalation	Exposure may ca to the moist muc membranes of th throat, and uppe respiratory system	ous le nose, r	Single	Mild		Frequent inhalation of large quantities, over a long period of time increases the risk of lung diseases.		Lung	
Ingestion	Internal discomfo effects are possib quantities are sw	ole if large	Single	Mild		Acute irritation			-
Other	-		-	-		-			-
Medical Con	ditions Aggravated by Ex	posure: Pre-exi	sting upper respiratory	and lung disea	ses may	be aggravated	by inhalatior	า.	
	city (IARC, NTP): None kn								
Potential En	vironmental Effects: Pow	der with moist				gradable.			
				on of Ingredier					
Hazardous C	•	CAS. Number			Limits				
	Tricalcium silicate	12168-85-3			4 mg/		<50		
Ta <sub>2</sub> O <sub>5</sub> - Tanta		1314-61-0			5 mg/		<50		
	Dicalcium silicate	10034-77-2			4 mg/				
CaSO <sub>4</sub> - Calci	um sulfate	7778-18-9			5 mg/	′ m³ <1			
			4. First A	id Measures				-	
Routes of Exposure	First Aid Instructions					Immediate Medical Attention Acute			Effects Delayed
Еуе		• •	water for 15 minutes, v Do not use eye ointme	•		Get medical attention immediately, even if no symptoms.		-	
Skin			cool soapy water. Remo oughly. Seek prompt me						-
Inhalation			into fresh air. If not bre minister oxygen. Keep		tificial	Get medical attention		-	
Ingestion	induce vomiting. If vor	niting occurs, k	water, and drink water of eep the head lower tha nything by mouth to ar	n chest to avoid		Get medical attention		-	-
Other	Seek medical advice af	ter large-scale	exposure (>100 gm)						-
	sicians (Treatment, Testir			cally		L		1	1
NOLE LU PHYS	הכומווז (דו כמנווופוונ, דפגנוו	ι <sub>δ</sub> , απα ινισπιτοι	ing). Theat symptomatic	cally.					



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5. Fire and Explosive Data								
Flashpoint & Method:	Flammable (Explosive) Limits in Air LEL/UEL:	Auto	oignition Temperature:	Other: none				
non-combustible	Not applicable	Not	applicable					
Flame Propagation or Burning Rate (for solids): not applicable	Properties Contributing to Fire Intensity: none	Flan	nmability Classification: 0					
	Extinguishing Media: Water spray, foam, carbon dioxide, or dry chemical. Extinguishing Media to Avoid: None							
Protection and Procedures for Firefigh	ters: Usual. Avoid inhalation of smoke; use a respira	tor and	d protective suit.					
Unusual Fire and Explosion Hazards: Irr	itating fumes may be released by thermal decomposi <b>6. Accidental Release Me</b>		umes of silicon dioxide may be evolve	d from material in a fire.				
Containment Techniques: Discard in tr	ash.							
	quipment Wipe up spills with moist rags or vacuum			ard in trash. Avoid				
	f container and unused contents in accordance with		l, state, and local requirements.					
Evacuation Procedures: N/E Specia	Il Instructions: N/E Reporting Requirements: N/E 7. Handling and Stora							
water. Wear suitable gloves and prote the powder from humidity. Be careful	der is caustic. Keep out of eyes, lungs, or contact w ective glasses during use. MTApex powder must be k not to contaminate the powder with a contaminate	ith muc cept we	Il sealed and free of contamination	by pyrogens. Protect				
	at temperatures at room temperature (25°C/77°F),	, not re	frigerated. Keep bottle tightly closed	d; material is hydrophilic.				
Inadequate storage conditions will sho	orten the shelf life. 8. Exposure Control/Personal	Drotoct	ion					
Ventilation: Use in a well-ventilated an		riotect	Other Engineering Controls: None					
Routes of Entry:	Personal Protective Equipment (PPE) for Normal L	Jse:	PPE for Emergencies:					
Eye/Face	Safety glasses or face shield		Safety glasses or face shield					
Skin	Wear latex or nitrile gloves and avoid skin contact		Gloves and Face shield					
Inhalation	Avoid dust inhalation.		Dust mask or respirator					
smoking while handling this product.	General Hygiene Considerations and Work Practices: Wear gloves as per universal precautions in dentistry. Wash your hands after use. No eating, drinking, or smoking while handling this product. Wash clothing with spills of material on clothing.							
	d Maintenance of Contaminated Equipment: Use liq	uid to r	emove dust. Use vinegar to dissolve	set material.				
Other Protective Measures and Equip	9. Physical and Chemical Chara	cteristi						
Appearance: Fine, yellowish powder		eteristi	Odor: None					
Normal Physical State:	d □Gas ⊠ Solid □(Other)		Boiling Point >1800°C, Melting Point >700°C Freezing Point >800°C					
Specific Gravity or Density (H <sub>2</sub> 0=1):3 g	/cc Solubility in Water: < 3 %		pH: ~12 mixed with water					
Vapor Pressure (mm Hg @ 20°C): ~ 0	Vapor Density (AIR= 1): N/A	-	Evaporation Rate (Butyl Acetate = 1): N/A					
Incompatibility (Matarials to Ayoid), K	10. Stability and Reactivity	Data						
	eep dry to avoid reaction with water and setting. Decomposition: May release silica fumes in a fire.							
Hazardous Polymerization?	Conditions to Avoid:		Stability?					
□ May Occur	Moisture will react with the powder.		⊠ Stable □Unstable					
	11. Toxicological Informat							
Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data: Toxicity is secondary to effect of caustic powder on moist tissues.								
<b>12. Ecological Information</b> Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements: Not biodegradable, non-hazardous.								
Toxicity, Environmental Fate, Physical,	13. Disposal Consideratio			e, non-nazaruous.				
Regulations: Dispose of container and unused contents in accordance with federal, state, and local requirements.								
Properties (Physical/Chemical) Affecting Disposal: Do not spread dust. When mixed with water-based liquid, a solid, non-biodegradable mass will form.								
14. Transport Information								
Regulated for shipping? □Yes ⊠No	Proper Shipping Name: MTApex Powder		Packing Group DOT class: NR					
Do changes in quantity, packaging, or □Yes	shipment method change product classification?		Hazard Class: Non-hazardous	Identification Number: None				
Other: none								
	15. Regulatory Informati							
Federal Regulations: Hazard code: Xn (irritant):Components are considered to be hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E - Corrosive Material) and subject to the requirements of WHMIS. <u>TSCA listed</u>								
Risk phrases: R37/38 Irritating to respiratory system and skin.   R41 Risk of serious damage to eyes. Safety phrases:								
S26 In case of eye contact, rinse imme	contact with skin.   S25 Avoid contact with eyes. diately with plenty of water and seek medical advic inwell, seek medical advice immediately.	e.   S36	5 Wear suitable protective clothing.					
	16. Other Information	1						
This information is based on our present knowledge; however, this shall not constitute a guarantee for a specific product feature. No toxicity data are available for this specific formulation. This health hazard assessment is based on information that is available for its components.								
N/A= not applicable. N/D= not determined. N/E= not established.								