

## **SAFETY DATA SHEET**

Product Name: Avalon Biomed NeoMTA® 2 Powder

Product Na			1. Product and Co	mpany Identif							
Product Name: Avalon Biomed NeoMTA® 2 Powder					SDS Code Number: SDS9						
	rade Name & Synonyms: NeoMTA® 2 Powder					Last Revision: 2 Effective Date: 4/6/2020					
Chemical N	al 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 N	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 NeoMTA® 2 Gel for dental use.						e-mail: info@avalonbiomed.com				
	2. Hazard Identification										
Emergency	Overview										
Dust mayirr	ritate throat and respirator es. Dust or splashes from the contact may cause burns.					٠.			eveloping		
Routes of	Signs and Sympto	Signs and Symptoms		Single, Repeated, or Severity (M		d, Acute and Chronic Health					
Exposure	Can cause eye immediate or		Lifetime Exposure Moderate,				nazardous component		Target Organ(s)		
<u> </u>											
Eye	delayed irritation	of cornea.	Single	Mild		-			-		
	Exposure may cause drying of					Acute irritation to skin and		and			
Cl.:		the skin with mild irritations. Discomfort or pain cannot be				mucous membranes. Ca aggravate other skin cor			ns.		
Skin	·			Mild				nditions.			
	relied upon to alert a person to					200.2.2.2.2.0					
	a hazardous skin exposure.					-					
	Exposure may cause irritation to the moist mucous membranes of the nose,		Single			Frequent inhalation of large quantities, over a long period of time increases the risk of lung diseases.					
Inhalation				Mild					Lung		
IIIIaiation	throat, and uppe			IVIIIU				sk of			
	respiratory system.										
	Internal discomfort or ill					+					
Ingestion	effects are possible if large quantities are swallowed.		Single Mild	Mild	Acute irritat		tion		_		
			Single IVIIIU		Acute iiiita						
Other	-		-	-		-			-		
Medical Co	nditions Aggravated by Ex	kposure: Pre-ex	isting upper respiratory	and lung disea	ises may	be aggravated	by inhalatio	n.			
Carcinogeni	icity (IARC, NTP): None kr	nown									
Potential Er	nvironmental Effects: Pow	vder with moist	ure hardens into a solic	mass that is n	ot biode	gradable.	·				
	TVII OTITICETTAL ETICOLS: 1 OV										
			3. Composition	on of Ingredien	ts						
	Components	CAS. Number	3. Composition	on of Ingredien	ts Lowes	t Exposure	%				
Hazardous (	Components	CAS. Number	3. Composition	on of Ingredien	Lowes Limits	•					
Hazardous (	Components - Tricalcium silicate	CAS. Number	3. Composition	on of Ingredien	Lowes Limits 4 mg/r	n <sup>3</sup>	<50				
Hazardous ( 3CaO•SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant	Components - Tricalcium silicate talite	CAS. Number 12168-85-3 1314-61-0	3. Composition	on of Ingredien	Lowes Limits 4 mg/r 5 mg/	m <sup>3</sup>	<50 <50				
Hazardous (  3CaO • SiO <sub>2</sub> -  Ta <sub>2</sub> O <sub>5</sub> - Tant  2CaO • SiO <sub>2</sub> -	Components  - Tricalcium silicate talite  - Dicalcium silicate	CAS. Number 12168-85-3 1314-61-0 10034-77-2	3. Composition	on of Ingredien	Lowes Limits 4 mg/r 5 mg/ 4 mg/	m <sup>3</sup>	<50 <50 <20				
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9	3. Composition	on of Ingredien	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/	m <sup>3</sup> m <sup>3</sup> m <sup>3</sup>	<50 <50 <20 <5				
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc	Components  - Tricalcium silicate talite  - Dicalcium silicate	CAS. Number 12168-85-3 1314-61-0 10034-77-2	3. Composition		Lowes Limits 4 mg/r 5 mg/ 4 mg/	m <sup>3</sup> m <sup>3</sup> m <sup>3</sup>	<50 <50 <20				
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub>	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9	3. Composition	on of Ingredien	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/	m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> m <sup>3</sup>	<50 <50 <20 <5 <5		Effects		
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub> Routes of	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9	3. Composition		Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/	m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> /m <sup>3</sup>	<50 <50 <20 <5 <5		Effects		
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub> Routes of	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate 3 - Tricalcium Aluminate  First Aid Instructions	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9 12042-78-3	3. Composition	Aid Measures	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/	m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> /m <sup>3</sup> /ma Immediate M Attention	<50 <50 <20 <5 <5	Acute	Effects Delay		
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub> Routes of Exposure	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate 3 - Tricalcium Aluminate  First Aid Instructions  Immediately flush eye	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9 12042-78-3	3. Composition  4. First And the state of th	Aid Measures while holding	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/	m³ m³ m³ m³ /m³ /m³ Immediate M Attention Get medical a	<50 <50 <20 <5 <5 <5		Delay		
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub> Routes of Exposure	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate 3 - Tricalcium Aluminate  First Aid Instructions  Immediately flush eye	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9 12042-78-3	3. Composition	Aid Measures while holding	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/	m³ m³ m³ m³ /m³ /m³ Immediate M Attention Get medical a immediately,	<50 <50 <20 <5 <5 <5	Acute			
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Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub> Routes of Exposure	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate 3 - Tricalcium Aluminate  First Aid Instructions  Immediately flush eye eyelids apart. Remove	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9 12042-78-3 s with plenty of contact lenses with plenty of	3. Composition  4. First A  water for 15 minutes, Do not use eye ointme cool soapy water. Rem	Aid Measures while holding ents. ove contamina	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/ 10 mg/	m³ m³ m³ m³ /m³ /m³ Immediate M Attention Get medical a immediately,	<50 <50 <20 <5 <5 <5	Acute	Delay		
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub> Routes of Exposure	Components  - Tricalcium silicate talite - Dicalcium silicate cium sulfate 3 - Tricalcium Aluminate  First Aid Instructions Immediately flush eye eyelids apart. Remove Immediately flush skir clothing and wash con	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9 12042-78-3 s with plenty of contact lenses with plenty of tact areas thor	4. First A  f water for 15 minutes, Do not use eye ointme cool soapy water. Rem oughly. Seek prompt m	Aid Measures while holding ents. ove contamina edical attention	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/ 10 mg/	m³ m³ m³ m³ /m³ /m³ Immediate M Attention Get medical a immediately,	<50 <50 <20 <5 <5 <5	Acute -	Delay		
Hazardous ( 3CaO • SiO <sub>2</sub> - Ta <sub>2</sub> O <sub>5</sub> - Tant 2CaO • SiO <sub>2</sub> - CaSO <sub>4</sub> - Calc 3CaO • Al <sub>2</sub> O <sub>3</sub> Routes of Exposure  Eye	Components  - Tricalcium silicate talite  - Dicalcium silicate cium sulfate 3 - Tricalcium Aluminate  First Aid Instructions Immediately flush eye eyelids apart. Remove Immediately flush skir clothing and wash con	CAS. Number 12168-85-3 1314-61-0 10034-77-2 7778-18-9 12042-78-3 s with plenty of contact lenses with plenty of tract areas thor from exposure	4. First A  water for 15 minutes, Do not use eye ointme cool soapy water. Rem oughly. Seek prompt m into fresh air. If not bre	while holding ents.  ove contamina edical attention eathing, give ar	Lowes Limits 4 mg/r 5 mg/ 4 mg/ 5 mg/ 10 mg/	m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> m <sup>3</sup> /m <sup>3</sup> Immediate M Attention Get medical a immediately, no symptoms	<50 <50 <20 <5 <5 edical	Acute -	Delay		
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## **SAFETY DATA SHEET**

Product Name: Avalon Biomed NeoMTA® 2 Powder

5. Fire and Explosive Data												
Flashpoint & Method:	Flammable (Explosive) Limits in Air LEL/UEL: Not applicable	Auto	oignition Temperature:	Other: none								
Flame Propagation or Burning	Properties Contributing to Fire Intensity:		nmability Classification: 0									
Rate (for solids): not applicable	none		·									
Extinguishing Media: Water spray, for	iters: Usual. Avoid inhalation of smoke; use a respira		nguishing Media to Avoid: None									
	•		•	ad from motorial in a fire								
Offusual Fire and Explosion Hazards. Irr	itating fumes may be released by thermal decompos		umes of silicon dioxide may be evolve	ed from material in a lire.								
6. Accidental Release Measures Containment Techniques: Discard in trash.												
Spill/Leak Clean-Up Procedures and Equipment Wipe up spills with moist rags or vacuum to prevent dust from being dispersed. Discard in trash. Avoid skin contact and inhalation. Dispose of container and unused contents in accordance with federal, state, and local requirements.												
Evacuation Procedures: N/E Special Instructions: N/E Reporting Requirements: N/E												
7. Handling and Storage												
Handling Practices and Warnings: Powder is caustic. Keep out of eyes, lungs, or contact with mucosal tissues. After incidental contact, wash and rinse with water. Wear suitable gloves and protective glasses during use. NeoMTA 2 powder must be kept well sealed and free of contamination by pyrogens. Protect the powder from humidity. Be careful not to contaminate the powder with a contaminated instrument. Trained personnel use this product exclusively for dental purposes.												
Storage Practices and Warnings: Store at temperatures at room temperature (25°C/77°F), not refrigerated. Keep bottle tightly closed; material is hydrophilic. Inadequate storage conditions will shorten the shelf life.												
	8. Exposure Control/Personal I	Protect	ion									
Ventilation: Use in a well-ventilated a			Other Engineering Controls: None									
Routes of Entry:	Personal Protective Equipment (PPE) for Normal L	Jse:	PPE for Emergencies:									
Eye/Face Skin	Avoid contact with eyes.  Wear latex or nitrile gloves and avoid skin contact		Safety glasses or face shield Gloves and Face shield									
Inhalation	Avoid dust inhalation.	•	Dust mask or respirator									
		tions in	· ·	A No esting drinking or								
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.  Protective Measures During Repair and Maintenance of Contaminated Equipment: Use liquid to remove dust. Use vinegar to dissolve set material.												
Other Protective Measures and Equipi		uia to r	emove dust. Use vinegar to dissolve	e set material.								
Other Protective ineasures and Equipi	9. Physical and Chemical Chara	cteristi	cs									
Appearance: Fine, white powder			Odor: None									
Normal Physical State:	I □Gas ⊠ Solid □(Other)		Boiling Point >1800°C, Melting Poi Freezing Point >800°C	nt >700°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									
, ,	10. Stability and Reactivity	Data	, ,	, ,								
	eep dry to avoid reaction with water and setting.											
<u> </u>	Decomposition: May release silica fumes in a fire.											
Hazardous Polymerization?	Conditions to Avoid:		Stability?									
☐ May Occur ☐ May Not Occur	Moisture will react with the powder.	ion	⊠ Stable	□Unstable								
11. Toxicological Information  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.												
	12. Ecological Informatio	n										
Toxicity, Environmental Fate, Physical,	Chemical Data, or Other Data Supporting Environm	ental H	azard Statements: Not biodegradab	le, non-hazardous.								
13. Disposal Considerations												
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.												
Regulated for shipping?	14. Transport Information Proper Shipping Name:	on	D. I. C. DOT I. ND									
⊠Yes ⊠ No	Avalon Biomed NeoMTA® 2 Powder		Packing Group DOT class: NR	Identification Number								
□Yes	shipment method change product classification?  No		Hazard Class: Non-hazardous	Identification Number: None								
Other: none	15. Regulatory Informati	on										
Federal Regulations: Hazard code: Xn	<u> </u>		erial under the Hazardous Products	Act as defined by the								
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.  TSCA listed Risk phrases: R37/38 Irritating to respiratory system and skin.  R41 Risk of serious damage to eyes. Safety phrases: S22 Do not breathe dust.  S24 Avoid contact with skin.  S25 Avoid contact with eyes. S26 In case of eye contact, rinse immediately with plenty of water and seek medical advice.												
S36 Wear suitable protective clothing. S45 In case of accident, or if you feel unwell, seek medical advice immediately.												
16. Other Information												
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 determ	ined. N/E= not established.											

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