SAFETY DATA SHEET

Product Name: Avalon Biomed Grey MTA Plus® POWDER

			and Company Identifica						
	e: Avalon Biomed Grey MTA Plu		SDS Code Number:	SDS Code Number: SDS4					
Trade Name 8	& Synonyms: Grey MTA Plus® P	owder							
Chemical Nar	me: no name assigned to mixtur	re	Manufactured by: I	Manufactured by: NuSmile Ltd					
CAS. Number	: None assigned		Address: 3315 W 12	Address: 3315 W 12 th Street, Houston, TX 77008					
			Website: www.nusmile.com						
Grades or Mi	nor Variant Identities: none		Telenhone Number	Telephone Number USA 713-861-0033 INTL 1-800-346-5133					
			·	· · · · · · · · · · · · · · · · · · ·					
Product Use (for dental use	,	g with Avalon Biomed MTA Plus ge	l e-mail: regulatory	e-mail: regulatory@nusmile.com					
		2. Ha	zard Identification						
	ate throat and respiratory syste			r a long period of time increase the ri effect on moist skin. Prolonged cont					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect hazardous component	Target Organ(s)				
Еуе	Can cause eye immediate or delayed irritation of cornea.	Single	Mild		-				
Skin	Exposure may cause drying of the skin with mild irritations Discomfort or pain cannot be relied upon to alert a person a hazardous skin exposure.	s. ee	Mild	Acute irritation to skin and mucous - membranes. Can aggravate other skin conditions.					
nhalation	Exposure may cause irritation to the moist mucous membranes of the nose, throat, and upper respirator system		Mild	Frequent inhalation of large qu a long period of time increases lung diseases.	Lung				
ngestion	Internal discomfort or ill effects are possible if large quantities are swallowed.	Single	Mild	Acute irritation -					
Other	-	-	-	-		-			
Medical Cond	itions Aggravated by Exposure:	Pre-existing upper respiratory a	nd lung diseases may be	aggravated by inhalation.		•			
	ty (IARC, NTP): None known	<u> </u>	,	,					
		h moisture hardens into a solid m	ass that is not biodegra	dable.					
Otentiai Envi	in on mental Effects. Fow der with		osition of Ingredients	addic.					
lazardous Co	mnonents		CAS. Number	Lowest Exposure Limits	%				
	ricalcium Silicate		12168-85-3	4 mg/m ³					
3i2O3 – Bism			1304-76-3	No TLV assigned.	<30				
			10034-77-2	4 mg/m ³	<20				
CaO•SiO2D	icalcium Silicate			<u> </u>		<5			
	m suitate		7778-18-9			-			
iO2 Silica		4.5	14464-46-1 irst Aid Measures	0.05 mg/m ³	<0.5				
	First Aid to december 2	4. F	irst Ald ivieasures	I to a self-to Medical Attacks		E((1-			
Routes of Exposure	First Aid Instructions			Immediate Medical Attention	Acute	Effects Delayed			
iye	·	vith plenty of water for 15 minute intact lenses. Do not use eye oint	_	Get medical attention immediately, even if no					
ikin	Immediately flush skin wi	ith plenty of cool soapy water. Rett areas thoroughly.	emove contaminated		-				
nhalation	,	om exposure into fresh air. If not eathing is difficult, administer ox	0, 0	Get medical attention.	-				
ngestion	If ingestion occurs, flush	If ingestion occurs, flush mouth with water, and drink water or milk. Do not induce vomiting. If vomiting occurs, keep head low.			Get medical attention				
Other		r large-scale (>25 gm) exposure.		-	-				
Note to Physic	cians (Treatment, Testing, and N	Monitoring): Treat symptomatica	lly.		•				
		C Cir.	e and Explosive Data						
Flashpoint & Method: Non-combustible		5. Fire lammable (Explosive) Limits in Air EL/UEL: not applicable	•	Autoignition Temperature: Not applicable Oth					
Flame Propagation or Burning Rate		roperties Contributing to Fire	Flammabilit	Flammability Classification: 0					
(for solids): not applicable		ntensity: none	Fuginaria de la constante de l	og Modia to Avoid: Nos-					
xtinguishing	Media: Water spray, foam, carl	bon dioxide, or dry-chemical.	Extinguishin	ng Media to Avoid: None					
rotection an	d Procedures for Firefighters: U	Isual. Avoid inhalation of smoke;	use a respirator and pro	tective suit.					

SDS4 Rev. 0 Page 1 of 2

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Unusual Fire and Explosion Hazards: Irritating fumes may be released by thermal decomposition. Fumes of silicon dioxide may be evolved from material in a fire.												
6. Accidental Release Measures												
Containment Techniques: Discard in trash.												
Spill/Leak Clean-Up Procedures and Equipment Wipe up spills with moist rags or vacuum immediately to prevent dust of material from being disperse, and discard in												
trash. Avoid skin contact and inhalation. Dispose of container and unused contents in accordance with federal, state, and local requirements.												
Evacuation Procedures, Special Instructions, Reporting Requirements: All 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												
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. Grey MTA Plus™ powder must be kept well sealed and free of contamination by pyrogens. Protect the												
powder from humidity. Do not 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 Protection												
Ventilation: Use in a well-ventilated area. Other Engineering Controls: None												
Routes of Entry:	Personal Protective Equipment (F	PPE) for Normal Use:			PPE for Emergencies:							
Eye/Face Skin	Avoid contact with eyes. Wear latex or nitrile gloves and a	Safety glasses of face Gloves and Face shiel	ry glasses or face shield									
Inhalation	Avoid dust inhalation.	void skiil contact.			Dust mask or respirat							
		ear gloves as per universal precaut	ions in dent									
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 Equipment: N/E- 9. Physical and Chemical Characteristics												
Appearance: Fine, Gr	ev nowder	9. Physical and Chemical C	ilai acterist	its	Odor: None							
	• •											
Normal Physical State					Boiling Point Melting Point	>1800°C >700°C						
☐ Liqu	id 🗌 Gas 🔀 Solid	(Other)			Freezing Point							
Specific Gravity or De	nsity (H20=1): ~3.7	Solubility in Water: < 1%		ı	pH: ~12 mixed with v							
Vapor Pressure (mm	Hg @ 20°C): ~0	Vapor Density (AIR= 1): N/A		1	Evaporation Rate (Bu	tyl Acetate = 1): N/A						
Other: none												
10. Stability and Reactivity Data Incompatibility (Materials to Avoid): Keep dry when stored to avoid reaction with water and setting.												
	roduced During Decomposition: N		iu settilig.									
Hazardous Polymerization? May Occur May Not Occur Conditions to Avoid: Moisture will degrade the powder.												
Stability? Stable Unstable -												
11. Toxicological Information												
Toxicity Data, Epidemiology Studies, Carcinoggenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structural Activity Data:												
Toxicity is secondary	to effect of caustic powder on moi											
		12. Ecological Infor										
Toxicity, Environmental Fate, Physical /Chemical Data or Other Data Supporting Environmental Hazard Statements: Not biodegradable, Non Hazardous.												
		13. Disposal Consid	orations									
Regulations: Disnose	of container and unused contents i			nuirements								
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, a solid, non-biodegradable mass will form.												
14. Transport Information												
Regulated for shipping? ☐ Yes ☑ No Proper Shipping Name: Grey MTA Plus™ Powder Packing Group DOT class: NR												
Do changes in quantit	y, packaging, or shipment method	ss: Non-hazardous	Identification Number:									
☐ Yes	⊠ No					None						
Other: none				1		I						
15. Regulatory Information												
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.												
Risk Phrases: R37/38 – Irritating to respiratory system & skin, R41 – Risk of serious damage to eyes Safety Phrases: S22 – Do not breath 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												
	Wear suitable protective clothing,				cal attention immedi	ately						
TSCA Listed	,					·						
		16. Other Inform	ation									
This information is ba	sed on our present knowledge; ho	wever, this shall not constitute a g	uarantee fo	or a specific pr	roduct features. No to	oxicity 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												
n/A= not applicable. I	א,ט= not aeterminea. N/E= not est	.สมแรกยน										

SDS4 Rev. 0 Page 2 of 2