



M. S. D. S. (VI) Toxicological Properties			
Entry through skin contact?	No	Product irritancy	See Sections (VII) and (VIII) below
Entry through eye contact?	No	Product sensitisation	No
Entry through skin absorplion?	No	Product carcinogenicity	No
Entry through inhalation?	See Sections (VII) and (VIII) below	Product leratogenicity	No
Entry acute exposure effects?	No	Product mutogenicity	No
Exposure Limit	See Sections (VII) and (VIII) below	Synergistic by-products	None

M. S. D. S. (VII) Preventive Measures Personal Protective Equipment. Follow local and State Law	
Gloves	Observe your local and state law for safe handling procedures.
Respirator	Use respirator or particular mask when cutting or abrading material
Eye Protection	Use eye protection with side shields when cutting or abrading material
Footwear	Use steel-toed safety footwear when handling slabs or tiles
Clothing	Observe your Local and State Law for safe handling procedures.
Headwear	Use of hard-hat recommended. Follow your Local and State Law
Other	Additional information is available in ASTM E-1132-86

Procedures and Controls Engineering Controls ASTM E-1132-86 Standard practice for health requirements relating to occupational exposure to quartz dust	
Handling Equipment and Procedures	Observe local safe handling procedures
Storage Requirments	Package and palletise tiles with appropriate nading material. Palletise slabs on A-Frame with appropriate banding material.
Waste Disposal Procedures	Observe Local and State regulations for disposal
Leak and Spill Response Procedures	Not Applicable
Fabrication Procedures	Use of diamond disc wet-saw strongly recommended and should be cut in a well-ventilated area.

M. S. D. S. (VIII) First Aid Procedures

Inhalation	The prolonged inhalation of airborne silica can cause the respiratory disease, silicosis, a progressive, incapacitating and sometimes fatal disease of lungs. The risk of lung disease increased if smoking is combined with silica inhalation. Always use a respirator or particular mask when cutting or abrading this material. If symptoms develop, seek medical assistance immediately.
Skin Contact	No known effect
Eye Contact	Use standard eye washing method to flush particles from eyes. Always use protection with side shields when cutting or abrading material.

IMPORTANT SAFETY PRE CAUTIONS:

Cosmos Quartz urges everyone handling its product to follow and observe all Local, State and Federal Laws for safe handling of general equipment, personal protective equipment and first aid procedures.

Technical Characteristics

CHARACTERISTICS	TEST METHOD	UNIT OF MEASUREMENT	Cosmos Quartz (Range of values)
Density	ASTM C 97	Kg/dm ³	2.11-2.46
Flexural Strength (Modulus of rupture)	ASTM C 99	Mpa	38.5-50.5
Water absorption	ASTM C 97	%	0.02
Compressive Strength	ASTM C 170	Mpa	198.9-213.7
Coefficient of Thermal Expansion	EN-103	20-70oC AT(10o/C)	239-341
Hardness	EN 101	Moh's scale	6-7
Resistance to deep abrasion	ASTM C241	Index	48.5-49
Slip resistance	DIN 51130	HONED 400 POLISHED	R9-R10
Resistance to chemical acids	ASTM C 560		NOT AFFECTED
Suitability for use in Kitchen Bench tops	EMPFEHLUNG XII BGVV		SUITABLE

Note: The values quoted above for Cosmos Quartz are average range of values of the different Quartz products tested.

Material Safety Data Sheet:	
M. S. D. S. (I) Identification	
Product Identification	Quartz surface
Manufacturer's Name	Cosmos Granite
Manufacturer's Address	501 S. New Hope Rd Raleigh, NC 27610
Telephone Number	(919) 212-0303
Fax Number	(919) 212-0305

M. S. D. S. (II) Hazardous Ingredients		
Hazardous Ingredients	% by Weight	% by Volume
Unsaturated Polyester	Less than 9%<	Less than 12%>

M. D. S. D. (III) Physical Data	
Physical State	Solid
Colour	Varied
Appearance	Marble and / or Granite like
Odour	Odourless
Vapour Pressure	Not Applicable
Vapour Density	
Evaporation Rate	Not Applicable
Boiling Point	Not Applicable
Freezing point	Not Applicable
Miscibility	Not Applicable
Specific Gravity	2476 kg/cu.m.

M. S. D. S. (IV) Fire & Explosion Data	
Is this product flammable?	Not below 406°C
If yes, under what conditions?	Temperature over 406°C
Method of Extinguishing	Water, foam
Flashpoint(°C)	Not Applicable
Method	ASTM E-84
Upper Flammability Limit (% by Volume)	Not Applicable
Upper Flammability Limit (% by Volume)	Not Applicable
Hazardous Combustion By-products	Not Applicable
Self-Ignition Temperature(°C)	484°C
Explosion Upon Impact Sensitivity	No
Static Discharge Explosion Sensitivity?	

M. S. D. S. (V) Reactivity	
Is this product chemically stable?	Yes
If No, under what conditons?	Not Applicable
Incompatibility with other substances?	Yes, leaching of colouration
If yes, What are these substances?	Hydroxides (i.e. Sodium, Potassium) Spills should be removed immediately
Reactivity with other substances	Yes, degradation of material
If yes, What are these substances?	Hydrofluoric Acid. Spills should be removed immediately
Hazardous decompositon products	None

