

Material Safety Data Sheet

STARDUST & EXTREME

1. **Identification of the Substance**

identification of the substance: application / preparation: producer / supplier:

information of emergency:

Zirconium dioxide Alien Stardust/ Extreme Zirconia Blocks Alien Milling Technologies 1345 N. Fitzgerald Ave. Unit F Rialto, CA 92376 844-ZIRCONIA

Composition / Information on Ingredients 2.

·chem.	pre-sintered, porous ZrO2-Block				
Characterization					
Composition	Percentage	CAS-Nr.	Symbol	R-infos	EG-Nr.
Zirconium dioxide	86.3-94.2%	1314-23-4			215-222-7
(ZrO ₂)					
Yttrium Oxide	5.8-9.7 %	1314-36-9			215-233-5
Iron oxide	0-0.5%	1332-37-2			215-275-4
Erbium oxide	0-2.0%	12061-16-4			235-045-7
Aluminum oxide	0-0.5%	1344-28-1			215-691-6
Alumnum oxide	0-0.5%	1544-20-1			215-091-0

Hazards Identification 3.

·hazard designation for human and environment:	n.a	
·hazardous / non-hazardous preparation:	n.a	
·harmful effects to health and environment on	do not inhale dust	
abuse:		
•other hazards based on material:	none	

4. **First Aid Measures**

general	no special measures are required
information:	
after inhalation:	supply fresh air. If irritations occur or persist, consult a physician
after skin contact:	rinse thoroughly with warm water and soap
after eye contact:	rinse eye for several minutes under running water. If symptoms
	persist, consult a physician
after swallowing:	rinse mouth thoroughly with water. If symptoms persist consult a
	physician
information for	n.a.
physician:	

5. <u>Fire-Fighting Measures</u>

suitable extinguishing media: n.a. not suitable extinguishing media: n.a. hazardous combustion products: n.a. special protection equipment: n.a.

Accidental Release Measures 6.

personal precautions:	common use of protective clothing, dust mask and dust
	extractor device
environmental	do not empty into surface water, ground-water or drain
precautions:	
methods of cleaning:	absorb mechanically
additional indication:	no special measure is required for material in compact shape

Handling and Storage 7.

handling:	according to instruction sheet	
Industrial hygiene:	usual hygiene measures are necessary. When using, do not eat	
	or drink or smoke.	
storage	store break-proof and in dry conditions	
fire and explosion	n.a.	
protection:		

Exposure Controls/ Personal Protection 8.

exposure limits:	TRGS 900 peak limit (4 mg/cm ³), inhalable fraction (5 mg/cm ³)
limitation and monitoring	n.a.
to exposure:	
imitation and monitoring	use suitable dust extractor device at workstation. Avoid contact
to exposure at work	with skin, mouth, eye and clothes. Do not eat, drink or smoke
station:	while you are working. Keep away from food and drinks.
respiratory protection:	use respirator if there is not sufficient extractor device. Do not
	inhale dust.
hand protection:	wear protective gloves, wash your hands after finish work, use
	skin care products
eye protection:	wear protective glasses
skin protection:	use protective clothes
limitation and monitoring	n.a
to environmental	

9. **Physical and Chemical Properties**

exposure:

appearance:	solid
aggregate state: odour:	white
odourless	odourless
PH:	n.a.
boiling point:	about 5,500°C
flash point:	not flammable
auto-flammability:	not self-igniting
explosive properties:	n.a.
oxidizing properties:	n.a.
vapor pressure:	n.a.
relative density:	about 3 gr/cm ³
solubility water / fat:	insoluble in water
partition coefficient:	n.a.
viscosity:	n.a.
vapor density:	n.a.
evaporation rate:	n.a.
other data	melting point about 2680°C



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10. Stability and Reactivity

conditions to avoid:	n.a.
materials to avoid:	n.a.
hazardous decomposition products:	n.a.

11. Toxicological Information

When used and handled according to the specifications, the product does not have any harmful effects to our experience and the information provided to us. Practical experience has shown that inhalation of dust can irritate respiratory system. Contact with skin can cause mechanical irritations.

12. Ecological Information

If use properly, there are not environmental problems expected. Do not empty into surface water, ground-water or drains.

ecotoxicity:	None
mobility:	n.a.
persistence / degradability:	n.a.
bioaccumulation potential:	n.a.
other adverse effects:	n.a.



13. Disposal Considerations

Product and packaging should be disposed to official rules and directives

14. Transportation Information

un-number:	n.a.
class:	n.a.
correct identification of goods:	Alien Stardust/ Extreme
packaging group	n.a.
ocean harmful substances:	n.a.
other relevant information:	no hazardous good

15. <u>Regulatory Information</u>

Subject to classification: This product is no subject to declaration according to EC rules.

16. Other Information

This safety data sheet is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.







Instruction for Use

STARDUST & EXTREME

This product should be handled by professional dental technician, sit and adjust by dental specialist and follow doctor's instruction.

Intended use:

Used for dental restoration using different CAD/CAM or manual milling machines. All blanks are processed through dental laboratories or by dental professionals.

Instruction for use:

- 1. Design restoration using appropriate CAD-CAM system.
- 2. Use shrinkage factor provided on disc label and start the milling process.
- 3. Remove the dust from milled restoration and adjust using rotary instruments if necessary.
- 4. Use the sintering program at the back side of box and start sintering.
- 5. Make final adjustments to shape and fit using rotary instruments with proper water irrigation. Polish.
- 6. Clean with brush using water. Do not steam-clean.
- 7. Finish restoration with stains and glaze as necessary.

ANote:

The product shall be used only by trained personnel. The manufacturer is not liable for any erroneous results, since we have no control if this instruction is properly followed or if the product is appropriately used. Any claims for damages therefore shall be limited exclusively to the commercial value of our products.

please make sure that the dentist has received all of the necessary information for the correct use of the product.

• Caution: Federal Law restricts this device to sale by or on the order of a dentist.

• Medical Device Adverse Event: So far there is no medical device adverse event on this product.

Safety instruction:

- 1. Avoid collision with hard material, avoid squeeze or shaking.
- 2. Don't apply to patient before the material is fully sintered.
- 3. This product should only be handled by dental specialist.
- 4. Wear suitable face mask to prevent fine dust inhalation. Avoid fine dust air pollution by using the air blaster in short bursts only rather than a continuous flow.

Disposal: The material is not hazardous to the environment.

Sinter instructions: Follow the back side of box





1844-ZIRCONIA.