

MATERIAL SAFETY DATA SHEET

1. Chemical product and company identification

Identification of the product

Product name: Denzir®

Manufacturer:

Cad.esthetics AB, Anbudsgatan 9, 931 57 Skellefteå, Sweden

Tel: +46 771 989800

Contact person: Anders Sundh

E-mail: anders.sundh@denzir.com

2. Chemical composition/information on ingredients

ZrO₂ + HfO₂ + Y₂O₃ min 99%

Y₂O₃ 5.15 +/- 0.2 %

Al₂O₃ max 0.5%

SiO₂ max 0.1%

Fe₂O₃ << 0.1%

Na₂O << 0.1%

Coloured Denzir have the following additives:

CeO₂ appr. 1%

Fe₂O₃ 0.02 – 0.1%

Bi₂O₃ appr. 0.1%

3. Hazard identification

Not a hazardous product as specified in the Council Directive 93/42EEC

4. First-aid procedures

- After skin contact -
- After eye contact If grinding dust gets into the eyes, rinse with plenty of water with the eyelid held wide open. Consult a physician.
- After inhalation If grinding dust is inhaled move into fresh air.
- After swallowing Drink water

5. Fire fighting procedure instructions

Not flammable

6. Accidental release measures

No harmful release

7. Handling and storage

Handling	No specific requirements
Storage	No specific requirements

8. Exposure controls and personal protection

- Respiratory protection Required when dust is generated
- Eye protection Required when grinding the material manually
- Hand protection -
- Industrial hygiene Wash hands from grinding dust

9. Physical and chemical properties

Grain size	max 0.5 µm
Bending strength	appr. 1300 Mpa
Thermal expansion	10.6 x 10 ⁻⁶ K ⁻¹
Xray contrast	metal appearance
Polishable	extremely good
Solubility	Insoluble
Density	6.1 g/cm ²

10. Stability and reactivity

Condition to be avoided	None
Substances to be avoided	None
Hazardous decomposition products	None

11. Toxicological information

Acute toxicity	Non-toxic
Primary irritant effects	-
After eye contact	Dust during manual grinding may cause irritation
After skin contact	-
After inhalation	Dust during manual grinding may cause irritation
After swallowing -	
Sensitisation	No sensitisation effect known

When used according to specification, the product does not have any harmful effects according to our experience and the information supplied to us.

12. Ecological information

No ecological problems are to be expected

13. Disposal

Product The product can not cause harm to the environment

Packaging Dispose of used package according to official regulations

14. Transportation

Not subject to transportation regulations

15. Regulations

Labelling as specified in the Council Directive 93/42EEC for custom made class 2a products.

16. Other information

The information contained herein is based on our best knowledge.