



Metrodent

EC - SAFETY DATA SHEET

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TITLE: STERIBIM

1. Identification of Substance and Company

Steribim

1.1 Manufacturer: Metrodent Limited, Lowergate Works, Lowergate, Paddock, Huddersfield, HD3 4EP. Tel: 01484 461616, Fax: 01484 462700

2. Composition Information

Steribim is a friable mineral of volcanic origin, grey in colour, and insoluble in water blended with ingredients which reduce dust and microbial growth. Chemical Analysis: SiO₂: 71.6%, AL₂O₃: 11.6%, Fe₂O₃: 1.4% K₂O: 4.8%, Na₂O: 3.8%, CaO: 0.8%, MgO: 0.2%, Loss on ignition: 4.5%

Physical Analysis: Hardness - Mohs Scale: 5.5-6, Water absorption W/W: 99.0%, Specific Gravity: 0.7, Dry Bulk Density: 0.9 Melting Point: 1200°C, PH: 8.2, Country of Origin: Italy

3. Chemical Characteristics

Complex natural silicate, consisting mainly of amorphous silica (SiO₂) but also containing minor quantities of various metallic oxides.

4. Physical Form

Polyhedral basic particles, light grey in colour, often milled to a fine odourless powder.

5. Technical Data

5.1 Melting: 1500°C, 5.2 True Density: 2.313-2.356 gms/cc
5.3 Apparent Density: 0.400-0.900 gms/cc
5.4 Vapour Pressure: N/A, 5.5 Viscosity: N/A
5.6 Solubility in water: Insoluble in water
5.7 pH Value: 7.5 - 8.0, 5.8 Flash Point: N/A
5.9 Ignition Point: N/A, 5.10 Explosive Limit: N/A
5.11 Additional Information: Steribim is an inert mineral, insoluble in water, alkalis and acids (other than Hydrofluoric acids).

6. Accidental Release Measures

Safety measures related to persons: Wear appropriate protective clothing. Cleaning Method: Wash site of spillage thoroughly with water and detergent. Dispose of with household waste observing local regulations. Please refer to 8 and 13

7. Protective Measures, Storage and Handling of the Material

7.1 Protective Measures: Store in dry place, handle carefully to avoid raising high concentration of dust in the work area.
7.2 Protective Devices: Suitable dust mask if exposed to high dust concentration; if persistent consider local extraction/ventilation system eyewash bottle with clean water.
7.3 Usage in work area: No hazard has been brought to our attention as a result of the normal industrial use of this product. As with any finely divided inert material, steps should be taken to avoid inhalation of dust.
7.4 Waste Disposal: As inert solid waste.

8. Steps to be taken in Case of Accidents and Fire

8.1 Spillage: Sweep up into another container for disposal as inert solid waste. 8.2 Fire Extinguisher: Not Applicable
8.3 First Aid: For eyes - wash out thoroughly with water to remove all dust particles

9. Toxicological Effects

Non-toxic, no narcotic effect, does not cause allergic reaction.

10. Environment Protection

It is a natural, inert material and is not a pollutant.

11. Additional information

Steribim consists of amorphous silica and does not contain quartz in allotropic crystalline forms such as cristobalite, tridymite etc. It is, however, recommended to adhere to the MEL specified by the A.C.G.I.H. and as listed for "Nuisance Particulates" in H.S & E. guidance note EH40/95 -5mg/m³ in 8 hr shift.

12. Ecological Information

13. Recommendations Regarding Disposal

14. Transportation Information

15. Regulatory Information

15.1 Mark on the label: None
15.2 Restriction regarding use and transportation: May only be used in the dental laboratory.
Other national demands could be importance

16. Other Data

The above describes our product with reference to possible safety requirements in accordance with our present level of knowledge. No claim is made for completeness and all applicable laws and regulations have to be considered.