



MATERIAL SAFETY DATA SHEET

Bullers Rings

1. Product and Company Reference

- 1.1 Product Reference: Bullers Rings types 55/84, 27/84, 73/84, 75/84, 89/05 – Annular discs pressed from spray dried ceramic bodies containing alumina silicates, felspathic fluxes, unleaded frits, silica. Supplied in the unfired state. Suitable for firing between 750°C to 1420°C dependent on type
- 1.2 Company Name: Mantec Technical Ceramics Ltd
- 1.3 Contact Details: Normacot Road, Longton, Stoke on Trent, Staffordshire, ST3 1PA, United Kingdom
- 1.4 Website: www.mantectechnicalceramics.com
- 1.5 Fax: +44 (0)1782 377599
- 1.6 Email: info@mantectc.com
- 1.7 Emergency Tel: +44 (0)1782 377550

2. Hazards Identification

The products are supplied as pressed, annular discs. Dust content is normally extremely low as supplied and is not considered dangerous to health or the environment. Dust generated by breaking or crushing the product, however, may lead to respiratory problems if there is long term exposure to excessive levels. There may be small amounts of crystalline silica associated with any dust.

3. Composition/ Information on Ingredients

Ingredient/ Component Name	%	CAS Number	EINECS Number	Classification
Kaolin	0 - 50	1332-58-7	310-127-6	Non-Hazardous
Quartz (Crystalline Silica)	0 - 5	14808-60-7	239-487-1	R49
Silica Glass	0 - 50	60676-86-0	262-373-8	Non-Hazardous
Felspar – group Minerals	0 - 5	68476-25-5	270-666-7	Non-Hazardous
Frits (Leadless)	0 - 50	65997-18-4	266-047-6	Non-Hazardous

4. First Aid

- 4.1 Inhalation: Remove from source to fresh air. If symptoms occur, seek medical attention
- 4.2 Ingestion: No adverse effects expected. Treat symptoms
- 4.3 Skin contact: No adverse effects expected with product. Possible mechanical irritation from direct contact with dust. In case of mechanical irritation, wash with mild soap and water and apply skin moisturizers
- 4.4 Eye contact: No adverse effects with product. Possible mechanical irritation from direct contact with dust. Wash affected eye(s) with large amounts of clean water. If symptoms persist, seek medical attention

5. Fire – Fighting Measures

Product is incombustible and inert in fire therefore there are no special considerations to be made

6. Spillage

6.1 Personal Protection: Avoid creating dust. Collect spillage preferably by vacuum cleaning. Dispose of as non-hazardous waste. Wear suitable PPE.

7. Handling & Storage

Use appropriate controls and practices to minimize dust generation. Store under cover and keep dry

8. Exposure Control/ Personal Protection

8.1 Respiratory Protection: Recommended to avoid long term inhalation of dust
8.2 Skin Protection: Not normally required. Wash thoroughly with mild soap and water after contact
8.3 Eye Protection: Provision of clean water supply or eye wash facilities is recommended.

9. Physical and Chemical Properties

Appearance: white, cream, green, yellow, pink, brown pressed annular discs
Odour: none
pH: 7 in water
Boiling Point: not determined
Melting Point: above 800°C
Flammability: not applicable
Explosive Properties: not applicable
Oxidising Properties: not applicable
Vapour Pressure: not applicable
Specific Gravity: 1.6+
Solubility: not soluble in water and common solvents but will be softened and dispersed

10. Stability and Reactivity

The article is inert and stable in normal conditions of temperature and pressure

10.1 Conditions to avoid: none
10.2 Dangerous decomposition products: none

11. Toxicological Information

Non-Toxic

12. Ecological Information

12.1 Persistence and degradability: not biodegradable
12.2 Bioaccumulation: not assimilated
12.3 Aquatic toxicity: none

13. Waste Disposal

Unused products and residue may be disposed of as non-toxic, inert materials to approved landfill sites in accordance with local regulations.

During use, the product may become contaminated with hazardous materials. Please refer to the relevant safety data sheet for those materials and treat accordingly.

14. Transport

Not classified as dangerous for transport

15. Regulatory Information

None

16. Additional Information

This data sheet is prepared for the specific materials listed and is only valid for such materials as supplied. The information given is believed to be accurate at the time of issue and is given in good faith. This issue supersedes all previous issues.

No representation, warranty or guarantee is made as to accuracy, liability or completeness. The product is supplied on the condition that the user accepts responsibility to satisfy himself as to suitability and completeness of such information for his own particular use.

Where the information provided herein discloses a potential hazard or hazardous ingredient, adequate warning must be provided to employees and users and appropriate precautions taken, including the practice of good industrial hygiene.

**16.1 References: EH40 Occupational Exposure Limits. Health and Safety Executive
EC Regulation 1907/2006 (REACH)**

16.2 Issue 4 – 5th September 2018