

MATERIAL SAFETY DATA SHEET

Ultralite Loose Fill/ Graded Aggregate Products

1. Product and Company Reference

- 1.1. Product Reference: Ultralite Loose Fill (ULF) – A family of porous bodies produced from aluminosilicates and fired to temperatures suitable for thermal insulation in various applications. (Usual range 700°C to 1400°C)
Ultralite Graded Aggregate (UGA) – A family of sized aggregates obtained from Ultralite Loose Fill.
- 1.2. Company Name: Mantec Technical Ceramics Ltd
- 1.3. Contact Details: Normacot Road, Longton, Stoke on Trent, Staffordshire, ST3 1PA, England.
- 1.4. Website: www.mantectechnicalceramics.com
- 1.5. Fax: +44 1782 377599
- 1.6. email: ultralite@mantectc.com
- 1.7. Emergency Tel: +44 1782 377550 (Not 24hrs)

2. Hazards Identification

The product is supplied in a pelletised form. Dust content is normally low as supplied and is not considered dangerous to health or the environment. Dust generated by a cutting, grinding or abrasive operation, however, may lead to respiratory problems if there is long term exposure to excessive levels. There may be a very small amount of crystalline silica associated with any dust.

3. Composition/Information on Ingredients ULF10/12

Ingredient/ Component Name	%	CAS Number	EINECS Number	Classification
Silica Glass	0 - 20	60676-86-0	262-373-8	Non-Hazardous
Crystalline Silica (Total)*	0 - 10	14808-60-7	239-487-1	H373
Kaolin, calcined	50 - 100	92704-41-1	296-473-8	Non-Hazardous
Corundum	0 - 10	1302-74-5		Non-Hazardous

Composition/Information on Ingredients ULF14

Ingredient/ Component Name	%	CAS Number	EINECS Number	Classification
Mullite	50- 90	1302-93-8	215-113-2	Non-Hazardous
Crystalline Silica (Total)*	0 - 0.5	14808-60-7	239-487-1	H373
Corundum	2 - 10	1302-74-5		Non-Hazardous
Amorphous	5 - 15			Non-Hazardous

* Following in-house investigation, we have determined the respirable fraction of certain products in this group as follows:

Product	Total Crystalline Silica Content %	Respirable Crystalline Silica Content %	Regulatory Classification & Labelling
ULF10 Loose Fill	9	<0.2	None
ULF12 Loose Fill	2.5	<0.02	None
ULF14 Loose Fill	<0.5	<0.004	None

These results are given according to the terms given in Section 16 and additionally certain assumptions made to enable these values to be calculated. Since all dust is potentially harmful to health whether or not the material is toxic, adequate protection should be provided. This is likely to include:

- Exclusion of non-essential people from the area of use
- Suitable ventilation to maintain levels below Workplace Exposure Levels
- PPE to further reduce the exposure level and prevent adherence to users own clothing
- Appropriate levels of industrial hygiene (cleaning) for equipment and personnel to prevent exposure during breaks from the task and after handling and use.

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 and recycle in application or 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/ off white
- Odour none
- pH 7 in water
- Boiling Point not determined
- Melting Point above 1200°C

Flammability	not applicable
Explosive Properties	not applicable
Oxidising Properties	not applicable
Vapour Pressure	not applicable
Loose Fill Density	50 - 120
Solubility	not soluble in water and common solvents

10. Stability and Reactivity

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

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| 10.1. | Conditions to Avoid | none |
| 10.2. | Dangerous decomposition products | none |

11. Toxicological Information

Non Toxic

12. Ecological Information

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| 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. Figures given are indicative and not meant to form part of a specification. 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.

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| 16.1. | References: EH40 Occupational Exposure Limits. Health and Safety Executive
EC Regulation 1907/2006 (REACH)
Company/ Third Party Literature and Test Reports |
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| 16.2. | Issue 6– April 2020 |
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