

## SAFETY DATA SHEET

(Following Regulations (EC) No 1907/2006 & (EC) No 1272/2008)

SDS Number: 801      Date of first issue: 31 March 2015      Date of last revision: 21 February 2022

### 1 - Identification of product

#### 1.1 - Identification of Product

**Tradenames:** ELgun FG,

REACH registration number:                      Exempt

CAS number:    N/A Mixture

#### 1.2 - Use of Product

Identified uses:    Refractory material

#### 1.3 - Identification of Company

##### IDENTIFICATION OF THE MANUFACTURER/SUPPLIER

Morgan Advanced Materials  
Thermal Ceramics  
30-36 Birralee Road, Regency Park, SA 5010, Australia  
Telephone: 1800 467 858  
Fax: 1800 467 850

##### Website

www.morganthermalceramics.com  
sds.tc@morganplc.com

#### 1.4 - Emergency information

##### EMERGENCY CONTACT NUMBER

Tel 1: +91 (4172) 244 313 extn no. 215 or 201  
Language: English

Opening hours: Only available during office hours

### 2 - Hazard Identification

#### 2.1 - Classification of the substance/ mixture

##### 2.1.1 CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008

Not classified as hazardous according to Classification, Labelling and Packaging regulations (CLP) 1272/2008 EEC

#### 2.2 - Labelling Elements

Not applicable

#### 2.3 - Other hazards which do not result in classification

### 3 - Composition / Information On Ingredients

| Product / ingredient name | %   | CAS No    | EC No     | Regulation (EC) No. 1272/2008 [CLP]                       |
|---------------------------|-----|-----------|-----------|---|
| Magnesium oxide           | ~86 | 1309-48-4 | 215-171-9 | Not classified  |
| Carbon                    | ~8  | 7782-42-5 | 231-955-3 | Not classified  |
| BallClay                  | <2  | 1332-58-7 | -         | Not classified  |
| Sodium Silicate           | <2  | 1334-09-8 | 215-171-9 | Skin Irrit. 2 H315<br>Eye Irrit. 2 H319<br>STOT SE 3 H335 |
| Bentonite                 | <1  | 1302-78-9 | 215-108-5 | Not classified  |
| Amorphous Silica          | <1  | 7631-86-9 | -         | Not classified  |

The full text for all R phrases and hazard statements are displayed in section 16.

REACH Registration number:    Product is Exempt  
Carbon: 01-2119514421-54

## 4 - First-Aid measures

**Skin**  
In case of skin irritation rinse affected areas with water and wash gently. Do not rub or scratch exposed skin.

**Eyes**  
In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes. Seek medical attention if irritation persists.

**Nose and Throat**  
If these become irritated move to a dust free area, drink water and blow nose. Seek medical attention if irritation persists.  
If symptoms persist, seek medical advice.

### 4.2 - Most Important symptoms and effects, both acute and delayed

No symptoms or effects expected either acute or delayed

### 4.3 - Indication of any immediate medical attention and special treatment required

No special treatment required, if exposure occurs wash exposed areas to avoid irritation.

## 5 - Fire-fighting measures

### 5.1 - Extinguishing media

Use extinguishing agent suitable for surrounding combustible materials.

### 5.2 - Special hazards arising from the substance or mixture

Non-combustible products,

### 5.3 - Advice for firefighters

Packaging and surrounding materials may be combustible.

## 6 - Accidental Release Measures

### 6.1 - Personal precautions, protective equipment and emergency procedures

Where abnormally high dust concentrations occur, provide the workers with appropriate protective equipment as detailed in section 8. Restore the situation to normal as quickly as possible.

### 6.2 - Environmental precautions

Prevent further dust dispersion for example by damping the materials.  
Do not flush spillage to drain and prevent from entering natural watercourses.  
Check for local regulations, which may apply

### 6.3 - Methods and materials for containment and clean up

Pick up large pieces and use a vacuum cleaner.  
If brushes are used, ensure that the area is wetted down first.  
Do not use compressed air for clean up.  
Do not allow to become windblown.

### 6.4 - Reference to other sections

For further information, please refer to sections 7 and 8

## 7 - Handling and storage

### 7.1 - Precautions for safe handling

Handling can be a source of dust emission and therefore the processes should be designed to limit the amount of handling. Whenever possible, handling should be carried out under controlled conditions (i.e., using dust exhaust system).  
Regular good housekeeping will minimise secondary dust dispersal.

### 7.2 - Conditions for safe storage

These products should be kept dry and cool, and containers should be re-sealed after use.  
Avoid damaging the packaging.

### 7.3 - Specific end use

Please refer to your local Morgan Thermal Ceramics' supplier.

## 8 - Risk Management Measures / Exposures Controls / Personal Protection

### 8.1 - Control parameters

| Name             | STD | TWA – 8hrs |                        | STEL – 15mins |                      | Notes |
|------------------|-----|------------|------------------------|---------------|----------------------|-------|
| Magnesium oxide  | WEL |            | 10.0 mg/m <sup>3</sup> |               |                      | as Mg |
| Carbon           | WEL |            | 10.0 mg/m <sup>3</sup> |               |                      |       |
| Ball Clay        | WEL |            | 2.0 mg/m <sup>3</sup>  |               |                      |       |
| Sodium Silicate  | WEL |            |                        |               | 2.0mg/m <sup>3</sup> |       |
| Bentonite        | WEL |            | 10.0 mg/m <sup>3</sup> |               |                      |       |
| Amorphous Silica | WEL |            | 6.0 mg/m <sup>3</sup>  |               |                      |       |

### Information on monitoring procedures

#### 8.2 - Exposure controls

##### 8.2.1 Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

##### 8.2.2 - Personal Protective Equipment

Skin protection:

Use of gloves and work clothes is recommended.

Soiled clothes should be cleaned before being taken off (e.g. use vacuum cleaning, not compressed air).

Eye protection:

As necessary wear goggles or safety glasses with side shields.

Respiratory protection:

For dust concentrations below the exposure limit value, RPE is not required but FFP2 respirators may be used on a voluntary basis.

For short-term operations where excursions are less than ten times the limit value use FFP2 respirators.

In case of higher concentrations or where the concentration is not known, please seek advice from your company and/or local Thermal Ceramics' supplier.

### INFORMATION AND TRAINING OF WORKERS

Workers should be trained on good working practices and informed on applicable local regulations

##### 8.2.3 - Environmental Exposure Controls

Refer to local, national or European applicable environmental standards for release to air water and soil.

For waste, refer to section13

## 9 - Physical and chemical properties

|  |                             |
|--|-----------------------------|
| <b>Information on basic physical and chemical properties</b> | Not applicable              |
| <b>State</b>   | Grey Powder                 |
| <b>Colour</b>  | Not applicable              |
| <b>Odour</b>   | None                        |
| <b>Odour threshold</b>                                       | Not applicable              |
| <b>pH</b>  | Not applicable              |
| <b>Melting point/freezing point</b>                          | > 2000°C                    |
| <b>Initial boiling point and boiling point range</b>         | Not applicable              |
| <b>Flash point</b>   | Not applicable              |
| <b>Evaporation rate</b>                                      | Not applicable              |
| <b>Flammability (solid, gas)</b>                             | Not applicable              |
| <b>Upper/lower flammability or explosive limits</b>          | Not applicable              |
| <b>Vapour pressure</b>                                       | Not applicable              |
| <b>Vapour density</b>  | Not applicable              |
| <b>Relative density</b>                                      | 2.8 - 3.2 g/cm <sup>3</sup> |
| <b>Solubility(ies)</b>                                       | not soluble in water        |
| <b>Partition co-efficient: n-octanol/water</b>               | Not applicable              |
| <b>Auto-ignition temperature</b>                             | Not applicable              |
| <b>Decomposition temperature</b>                             | Not applicable              |
| <b>Viscosity</b>   | Not applicable              |
| <b>Other safety information</b>                              | Not applicable              |
| <b>Particle Characteristics</b>                              | Not applicable              |
| <b>Explosive properties</b>                                  | Not applicable              |
| <b>Oxidising properties</b>                                  | Not applicable              |

## 10 - Stability and Reactivity

### 10.1 - Reactivity

The material is stable and non reactive.

### 10.2 - Chemical Stability

Stable under normal temperature conditions.

### 10.3 - Possibility of Hazardous Reactions

None

### 10.4 - Conditions to Avoid

Please refer to handling and storage advice in Section 7

### 10.5 - Incompatible Materials

None

### 10.6 - Hazardous decomposition products

None

## 11 - Toxicological information

### Toxicokinetics, metabolism and distribution

Other health effects: This substance has no evidence of carcinogenic properties.

### Acute toxicity

Acute toxicity (Oral LD50): Not relevant

Acute toxicity (Dermal LD50): Not relevant

Acute toxicity (Inhalation LC50): Not relevant

Inhalation: Dust in high concentrations may irritate the respiratory system.

Ingestion: May cause discomfort if swallowed.

Skin contact: Powder may irritate skin.

Eye contact: Particles in the eyes may cause irritation and smarting.

### 11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008

## **12 - Ecological information**

### **12.1 - Toxicity**

These products are inert materials that remain stable overtime.  
No adverse effects of this material on the environment are anticipated.

### **12.2 - Persistence and degradability**

Not established

### **12.3 - Bioaccumulative potential**

Not established

### **12.4 - Mobility in soil**

No information available

### **12.5 - Results of PBT and vPvB assessment**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

This mixture contains no substance considered to be very persistent and very bioaccumulative (vPvB).

### **12.6 - Endocrine Disrupting Properties**

No additional information available

### **12.7 - Other adverse effects**

## **13 - Disposal Considerations**

### **13.1 - Disposal Considerations**

## **14 - Transport information**

### **14.1 - Transport information**

## **15 - Regulatory information**

### **15.1 - Regulatory information**

## **16 - Other Information**

### **16.1 - ADDITIONAL INFORMATION AND PRECAUTIONS TO BE CONSIDERED UPON REMOVAL OF AFTER SERVICE MATERIAL**

#### **16.2 - uses advised against**

#### **16.3 - NOTE**

#### **16.4 - Further Information**

#### **16.5 - Technical Datasheets**

#### **16.6 - Revision Summary**

#### **16.7 - NOTICE**