



## 5 - Fire-fighting measures

### 5.1 - Extinguishing media

Non-combustible products. Fire protection class: 0

Packaging and surrounding materials could be combustible.

Use extinguishing agent suitable for surrounding combustible materials.

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

### 5.3 - Advice for firefighters

## 6 - Accidental Release Measures

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

Wear suitable goggles, gloves and protective clothing.

### 6.2 - Environmental precautions

Do not flush spillage to drain and prevent from entering natural watercourses.  
For waste disposal refer to section 13

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

Contain spillage, absorb in earth or sand and shovel into suitable containers

### 6.4 - Reference to other sections

## 7 - Handling and storage

### 7.1 - Precautions for safe handling

Do not handle wet product with bare hands. The process or processes should be designed to limit the amount of handling. Regular good housekeeping will minimise secondary 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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### Information on monitoring procedures

### 8.2 - Exposure controls

Review your applications in order to identify potential sources of exposure. If necessary, conduct personal air monitoring. Use technical and/or organisational means to comply with regulations.

#### 8.2.2 - Personal Protective Equipment

##### Skin Protection

Use of gloves and work clothes is recommended.

##### Eye Protection

Wear safety glasses

##### Respiratory Protection

Use appropriate respiratory protective equipment (RPE) if necessary.

##### Information and Training of workers

Workers should be informed on:

- The requirements for the use of protective equipment and clothing.

Workers should be trained on:

- The proper use of protective equipment

#### 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>	Beige Liquid
<b>Colour</b>	Not applicable
<b>Odour</b>	None
<b>Odour threshold</b>	Not applicable
<b>pH</b>	10
<b>Melting point/freezing point</b>	Not applicable
<b>Initial boiling point and boiling point range</b>	Approx. 100°C
<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>	1500 kg/m <sup>3</sup> @ 20°C
<b>Solubility(ies)</b>	Miscible with 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>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

The product is inorganic, stable and inert

### 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

light metal and LM-alloys

### 10.6 - Hazardous decomposition products

None

## 11 - Toxicological information

### Toxicokinetics, metabolism and distribution

Primary route of exposure is skin contact, as product is a skin irritant protective equipment should be provided.

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

- |                       |            |                 |
|-----------------------|------------|-----------------|
| • Acute Toxicity:     | None       |                 |
| • Primary irritation: | oral LD 50 | Rat: 3400 mg/kg |
|                       | Skin LD 50 | Unknown         |
|                       | Inhalation | Unknown         |
| • Sensitization:      | Unknown    |                 |

Additional toxicological information: In case of eye contact rinse with plenty of water

## 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

### 12.3 - Bioaccumulative potential

### 12.4 - Mobility in soil

### 12.5 - Results of PBT and vPvB assessment

### 12.6 - Endocrine Disrupting Properties

### 12.7 - Other adverse effects

## 13 - Disposal Considerations

Waste from these materials may be generally disposed off at a landfill, which has been licensed for this purpose. Please refer to the European list (Decision N° 2000/532/CE as modified) to identify your appropriate waste number, and insure national and/or regional regulations are complied with.

Unless wetted, such a waste is normally dusty and so should be properly sealed in containers for disposal. At some authorised disposal sites, dusty waste may be treated differently in order to ensure they are dealt with promptly to avoid them being windblown. Check for any national and/or regional regulations, which may apply.

## 14 - Transport information

Not classified as dangerous goods under relevant international transport regulations (ADR, RID, IATA, IMDG, ADN).

Definitions:

ADR Transport by road, council directive 94/55/EC  
IMDG Regulations relating to transport by sea  
RID Transport by rail, Council Directive 96/49/EC  
ICAO/IATA Regulations relating to transport by air  
ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

## 15 - Regulatory information

### 15.1 - Safety health and environment regulations/legislation specific for the substances or mixtures

EU regulations:

- Regulation (EC) No 1907/2006 dated 18th December 2006 on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) No 1272/2008 dated 20th January 2009 on classification, labelling and packaging of substances and mixtures (OJ L 353)
- Annex of Regulation (EU) 2015/830
- Commission regulation (EC) No 790/2009 of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
- The 1st Adaptation to Technical Progress (ATP) to Regulation (EC) No 1272/2008 enters into force on 25 September 2009.

### PROTECTION OF WORKERS

Shall be in accordance with several European Directives as amended and their implementations by the Member States:

- a) Council Directive 89/391/EEC dated 12 June 1989 "on the introduction of measures to encourage improvements in the safety and health of workers at work" (OJEC (Official Journal of the European Community) L 183 of 29 June 1989, p.1).
- b) Council Directive 98/24/EC dated 7 April 1998 "on the protection of workers from the risks related to chemical agents at work" (OJEC L 131 of 5 May 1998, p.11).

### OTHER POSSIBLE REGULATIONS

Member States are in charge of implementing European Directives into their own national regulation within a period of time normally given in the Directive. Member States may impose more stringent requirements. Please always refer to any national regulation.

### 15.2 - Chemical Safety Assessment

Chemical Safety Reports have been requested from suppliers, as soon as this information is available it will be shared with downstream users.

## 16 - Other Information

For more information connect to:  
The Morgan Thermal Ceramics' website: (<http://www.morganthermalceramics.com/>)  
Or ECFIA's website: (<http://www.ecfia.eu>)

### Revision Summary

### Technical data sheets

### NOTICE:

The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However safe as provided by law, no warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorisation given or implied to practice any patented invention without a licence. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product (however, this shall not act to restrict the vendor's potential liability for negligence or under statute).