

#### SAFETY DATA SHEET

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

SDS Number: 1007 Date of first issue: 13 March 2013 Date of last revision: 21 February 2022

### 1 - Identification of product

### 1.1 - Identification of Product

Tradenames: Hardener, Kaowool Hardener, Superwool Hardener,

The above mentioned product is a hardener.

#### 1.2 - Use of Product

This product is used to produce a hard surface finish.

### 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.morgan thermal ceramics.comsds.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

Mild mechanical irritation to skin, eyes and upper respiratory system may result from exposure to high dust concentrations of dried product.

These effects are usually temporary.

Pre-existing skin and respiratory conditions including dermatitis, asthma or chronic lung disease might be aggravated by exposure.

## 3 - Composition / Information On Ingredients

This product is an inorganic liquid hardening agent.

COMPONENT	%	CAS Number	REACH Registration Number	Hazard Classification according to CLP
Water	60-80	7732-18-5	Not yet available	Not classified as hazardous
Colloïdal silica	20-40	7631-86-9	01- 2119379499-16	Not classified as hazardous

None of the components are radioactive under the terms of European Directive Euratom 96/29.

### 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.

In case of eye contact flush abundantly with water; have eye bath available. Do not rub eyes. Seek medical attention is 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

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

For further information, please refer to sections 7 and 8

### 7 - Handling and storage

# 7.1 - Precautions for safe handling

Handling of dried product 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

Store in original packaging in a dry area. Avoid storage below +2°C and above +43°C. The product has a shelf life of approximately 12 months. 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

Industrial hygiene standards and occupational exposure limits vary between countries and local jurisdictions. Check which exposure levels apply to your facility and comply with local regulations. If no regulatory dust or other standards apply, a qualified industrial hygienist can assist with a specific workplace evaluation including recommendations for respiratory protection. Examples of national OELs (November 2014) are given in the table below.

	T-4-1 D4	D D 4		
COUNTRY		Resp Dust	Source	
	(mg/m3)	(mg/m3)		
Austria	10	6	Grenzwerteverordnung	
			Valeurs limites d'exposition	
Belgium	10	3	professionnelle – VLEP/	
			Grenswaarden voor	
			beroepsmatige blootstelling	
			– GWBB	
Denmark	10	5	Grænseværdier for stoffer	
			og materialer	
Finland	No limit	No limit	Finnish Ministry of Social	
			Affairs and Health	
France	10	5	Institut National de	
			Recherche et de Sécurité	
Germany*	10	1,25	TRGS 900	
Hungary	No limit	No limit	EüM-SZCSM rendelet	
Ireland	10	4	HAS – Ireland	
Italy	10	3	Uses EU values	
Luxembourg	10	6	Agents Chimiques,	
			Cancérigènes Ou	
			Mutagènes Au Travail	
Netherlands	10	5	SER	
Norway		5	Veiledning om	
	10		administrative normer for	
	10		forurensning i	
			arbeidsatmosfære	
Poland	No limit	No limit	Dziennik Ustaw 2010	
Spain	10	3	INSHT	
Sweden	10	5	AFS 2005:17	
Switzerland		6	SUVA - Valeurs limites	
	10		d'exposition aux postes de	
			travail	
UK	10	4	EH40/2005	

#### Information on monitoring procedures

United Kingdom

MDHS 14/4 - "General methods for sampling and gravimetric analysis of respirable, thoracic and inhalable aerosols"

# NIOSH

NIOSH 0500 "Particulates not otherwise regulated, total" NIOSH 0600 "Particulates not otherwise regulated, respirable"

### 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

Information on basic physical and chemical properties

State Colour Odour

Odour threshold pH

Melting point/freezing point

Flammability (solid, gas)

Initial boiling point and boiling point range Flash point Evaporation rate

Upper/lower flammability or explosive limits

Vapour pressure Vapour density Relative density Solubility(ies)

Partition co-efficient: n-octanol/water Auto-ignition temperature

Decomposition temperature Viscosity

Other safety information

Particle Characteristics
Explosive properties
Oxidising properties

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

None

10.6 - Hazardous decomposition products

Upon heating above 900°C for sustained periods, this amorphous material begins to transform to mixtures of crystalline phases. For further information please refer to Section 16.

# 11 - Toxicological information

### Toxicokinetics, metabolism and distribution

### 11.1.1 BASIC TOXICOKINETICS

Exposure is not expected during normal use due to nature of the products, exposure during removal may be possible, predominantly by inhalation or ingestion, available toxicological information is as follows:

Not Applicable White Liquid

Not appicable

Not Applicable

Not determined

Not applicable

Not applicable

Not applicable Not applicable

Not applicable

Not Applicable

Not applicable not soluble in water

Not applicable

Not applicable

Not Applicable

Not Applicable

Not appicable

Not applicable Not applicable

No further relevant information available.

Not Applicable

None

11.1.2 HUMAN TOXICOLOGICAL DATA

No human data available

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

ACUTE TOXICITY

Lethal dose 50 % (LD50) / lethal concentration 50% (LC50): N.A.

CHRONIC TOXICITY No effects reported

### 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

To prevent waste materials from becoming airborne during waste storage, transportation and disposal, a covered container or plastic bagging is recommended.

For Australia, waste from these materials should be considered as hazardous waste and local waste authorities should be contacted for correct disposal methods.

For other countries, waste from these materials (even after use above 900°C) is not classified as hazardous waste and may generally be disposed of at a normal tipping site which has been licensed for the disposal of industrial waste. Taking into account any possible contamination during use, which may be classified as hazardous, expert guidance should be sought.

Such a waste is normally dusty (unless wetted) and so should be properly bagged and clearly labelled for disposal. At some tip sites dusty waste may be treated differently in order to ensure they are dealt with promptly and to avoid them being windblown. Check for national and /or regional regulations to identify all applicable disposal requirements.

#### 14 - Transport information

### 14.1 - Transport information

# 14.1. UN number

Not Applicable

### 14.2. UN proper shipping name

Not Applicable

### 14.3. Transport hazard class(es)

Not Applicable

### 14.4. Packing group

Not Applicable

# 14.5. Environmental hazards

Not Applicable

## 14.6. Special precautions for user

Not Applicable

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

# 15 - Regulatory information

### 15.1 - Regulatory information

This SDS has been prepared in accordance with WHO GHS rev. 6 requirements. Where applicable, local regulations have been followed.

### 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

This Safety Data Sheet was originally produced in English and has subsequently been translated in to other languages; whilst every effort has been made to make this an accurate translation, please be aware that technical terms do not always translate correctly. The English version should always be considered as the reference version.

#### 16.4 - Further Information

**FURTHER INFORMATION** 

Further information can be found on

http://www.morganthermalceramics.com/

http://www.ecfia.eu/

 $\verb| http://www.safeworkaustralia.gov.au/sites/swa/about/publications/pages/workplace-exposure-standards-airborne-contaminants | the contaminant of the contaminant o$ 

#### 16.5 - Technical Datasheets

### TECHNICAL DATA SHEETS

For more information on individual products please see the technical data sheet section at www.morganthermalceramics.com

### 16.6 - Revision Summary

Update to section 8.

### 16.7 - NOTICE

The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, 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 authorization given or implied to practice any patented invention without a license. 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.