

**SAFETY DATA SHEET**

Following Regulation 1910.1200

SDS Number: 142      Date of first issue: 29 October 2008      Date of last revision: 21 February 2022

**1 - Identification of product**

**a - Product identifier used on the label**

**Tradenames:** Cerakote 624A

**b - Other means of identification**

REFRACTORY CEMENTS, MASTIC

**c - Recommended use of the chemical and restrictions on use**

High temperature adhesive

**d - Name, address, and telephone number**

<b>Morgan Advanced Materials</b> P. O. Box 923; Dept. 300 Augusta, GA 30903-0923 Telephone: 706-796-4200
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**e - Emergency Phone Number**

For Product Stewardship and Emergency Information:  
Hotline - 1-800-722-5681  
Fax - 706-560-4054

For additional SDSs and to confirm this is the most current SDS for the product, visit our web page [www.morganthermalceramics.com](http://www.morganthermalceramics.com) or send a request to [MT.NorthAmerica@morganplc.com](mailto:MT.NorthAmerica@morganplc.com)

**2 - Hazard Identification**

**a - Classification of the chemical in accordance with paragraph (d) of §1910.1200**

Under OSHA HCS 2012, this product is classified as Category 2 skin & eyes irritant.

**b - Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200**

**Hazard Pictograms**



**Hazard Statements**

Causes mild skin irritation

Causes eye irritation

May cause respiratory irritation

May cause temporary irritation to exposed eyes, skin or respiratory tract.

**Precaution Statements**

Do not handle until all safety instructions have been read and understood.

Wear protective gloves, protective clothing, eye protection, and face protection.

If concerned about exposure, get medical advice

Dispose of waste in accordance with local, state and federal regulations.

**Emergency Overview**

**c - Describe any hazards not otherwise classified that have been identified during the classification process**

**d - Mixture Rule**

Not applicable.

**3 - Composition / Information On Ingredients**

**a - Composition table**

<b>COMPONENTS</b>	<b>CAS NUMBER</b>	<b>% BY WEIGHT</b>
Colloidal Silica	7631-86-9	30 - 40
Water	7732-18-5	2 - 5
Aluminum Oxide	1344-28-1	40 - 60

**b - Common Name**

(See Section 8 "Exposure Controls / Personal Protection" for exposure guidelines)

**d - Impurities and Stabilizing Additives**

Not applicable.

#### 4 - First-Aid measures

a - Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

##### Eyes

Flush with large amounts of water for at least 15 minutes. Do not rub eyes.

##### Skin

Wash affected area gently with soap and water. Skin cream or lotion after washing may be helpful.

##### Respiratory Tract

Remove affected person to clean fresh air. Drink water to clear throat, and blow nose to remove dust.

##### Gastrointestinal

Unlikely route of exposure.

c - Indication of immediate medical attention and special treatment needed, if necessary

#### 5 - Fire-fighting measures

a - Suitable (and unsuitable) extinguishing media and

Use extinguishing media suitable for type of surrounding fire

c - Special Protective Equipment and Precautions for Firefighters

NFPA Codes: Flammability: 0 Health: 1 Reactivity: 0 Special: 0

b - Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

None

#### 6 - Accidental Release Measures

a - Personal precautions, protective equipment, and emergency procedures

Wear suitable goggles, gloves and protective clothing.  
Contain spillage, absorb in earth or sand and shovel into suitable containers.  
Do not flush spillage to drain and prevent from entering natural watercourses. For wastes disposal refer to section 13.

b - Methods and materials for containment and cleaning up

Take up with liquid-absorbing material (eg. sand, wood dust). Wash spillage site thoroughly with soap and water or detergent solution. Dispose of according to Federal, State and local government regulations.

#### 7 - Handling and storage

a - Precautions for safe handling

Limit use of power tools unless in conjunction with local exhaust. Use hand tools whenever possible. Do not use compressed air for clean-up.

b - Conditions for safe storage, including any incompatibilities

Store in a manner to minimize airborne dust.

c - empty containers

Product packaging may contain residue. Do not reuse.

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

a - OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available

EXPOSURE GUIDELINES			
MAJOR COMPONENT	OSHA PEL	ACGIH TLV	MANUFACTURER'S REG
Colloidal Silica	(80 mg/m <sup>3</sup> + % SiO <sub>2</sub> ) or 20 mppcf	Not Established	NONE
Aluminum Oxide	15 mg/m <sup>3</sup> (total dust); 5 mg/m <sup>3</sup> (respirable dust)	Not Established	NONE
<u>OTHER OCCUPATIONAL EXPOSURE LEVELS (OEL)</u> 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.			

b - Appropriate Engineering Controls

General dilute ventilation

c - Individual protection measures, such as personal protective equipment

##### PPE - Skin

Prevent prolonged or repeated contact by using rubber gloves and appropriate clothing.  
Launder contaminated clothing before reuse.

##### PPE - Eye

As necessary, wear goggles or safety glasses with side shields.

##### PPE – Respiratory

Generally not required for product application

## 9 - Physical and chemical properties

<b>a - Appearance</b>	White viscous liquid
<b>b - Odor</b>	Not applicable
<b>c - Odor Threshold</b>	Not applicable
<b>e - pH</b>	10
<b>d - Melting Point</b>	Not determined
<b>f - Initial Boiling Point/Range</b>	Not applicable
<b>g - Flashpoint</b>	Not applicable
<b>h - Evaporation Rate</b>	Not applicable
<b>i - Flammability</b>	Not applicable
<b>j - Upper/Lower Flammability or Explosive Limits</b>	Not applicable
<b>k - VAPOR PRESSURE</b>	Not applicable
<b>l - VAPOR DENSITY</b>	Not applicable
<b>m - Solubility</b>	Not soluble in water
<b>n - Relative Density</b>	2.1
<b>o - Partition Coefficient: n-Octanol/water</b>	Not applicable
<b>p - Auto-ignition temperature</b>	Not applicable
<b>q - Decomposition Temperature</b>	Not applicable
<b>r - Viscosity</b>	Not applicable

## 10 - Stability and Reactivity

### a - Reactivity

None.

### b - Chemical Stability

Stable under conditions of normal use.

### c - Possibility of Hazardous Reaction

None

### d - Conditions to Avoid

None

### e - Incompatible Materials

None

### f - Hazardous decomposition products

Exposure to high temperature may produce oxide of carbon

## 11 - Toxicological information

### a - TOXICOKINETICS, METABOLISM AND DISTRIBUTION

#### b - Acute Toxicity

#### c - Epidemiology

#### d - Toxicology

Colloidal Silica:  
Oral LD50: >10,000 mg/kg in rats

Animal testing indicates Colloidal Silica is a mild eye irritant. It is a negligible to slight skin irritant when tested as a 50% aqueous paste. The dust is not expected to be a skin irritant. Animal testing indicates Colloidal Silica is not a skin sensitizer. Single, repeated and long-termed exposure by ingestion to Colloidal Silica caused no significant toxicological effects. Single exposure by inhalation to Colloidal Silica caused no significant toxicological effects. Repeated exposure caused pulmonary changes including reversible inflammation. Long-term exposure by inhalation caused pulmonary changes including reversible inflammation, vascular obstruction and emphysema. Animal testing indicates Colloidal Silica does not have carcinogenic or reproductive effects. No animal data are available to define the developmental toxicity of Colloidal Silica. Colloidal Silica has not produced genetic damage in bacterial cultures. It has not been tested for genetic toxicity in mammalian cell cultures or in animals.

Aluminum Oxide:

May cause skin irritation and/or dermatitis. Contact with eyes may cause irritation. Inhalation of dust may cause irritation to the respiratory tract. Ingestion of aluminum oxide dust may cause irritation of the mucous membranes.

### International Agency for Research on Cancer and National Toxicology Program

Not applicable.

## 12 - Ecological information

These products are not reported to have any ecotoxicity effects.

### c - Bioaccumulative potential

No information for the product.

### d - Mobility in soil

No information for the product.

### e - Other adverse effects (such as hazardous to the ozone layer

No adverse effects of this material on the environment are anticipated.

### 13 - Disposal Considerations

#### Waste Management and Disposal

To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Solidify and dispose of in an approved landfill. Consult federal, state or local environmental control regulation.

#### Additional information

This product, as manufactured, is not classified as a listed or characteristic hazardous waste according to U. S. Federal regulations (40 CFR 261). Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under U. S. Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste. Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

### 14 - Transport information

#### a - UN number.

Hazard Class: Not Regulated United Nations (UN) Number: Not Applicable  
Labels: Not Applicable North America (NA) Number: Not Applicable  
Placards: Not Applicable Bill of Lading: Product Name

#### b - UN proper shipping name

Not applicable.

#### c - Transport hazard class(es)

Not applicable.

#### d - Packing group, if applicable

Not applicable.

#### e - Environmental hazards (e.g., Marine pollutant (Yes/No))

No.

#### f - Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

Not regulated.

#### g - Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Not applicable.

#### International

INTERNATIONAL  
Canadian TDG Hazard Class & PIN: Not regulated  
Not classified as dangerous goods under ADR (road), RID (train), IATA (air) or IMDG (ship).

### 15 - Regulatory information

#### 15.1 - United States Regulations

##### **UNITED STATES REGULATIONS**

**SARA Title III:** This product does not contain any substances reportable under Sections 302, 304, 313 (40 CFR 372). Sections 311 and 312 apply.

**OSHA:** Comply with Hazard Communication Standards 29 CFR 1910.1200 and 29 CFR 1926.59 and Respiratory Protection Standards 29 CFR 1910.134 and 29 CFR 1926.103.

**TSCA:** All substances contained in this product are listed in the TSCA Chemical Inventory

#### 15.2 - International Regulations

##### **INTERNATIONAL REGULATIONS**

**Canadian WHMIS:** Not applicable

**Canadian EPA:** All substances in this product are listed, as required, on the Domestic Substance List (DSL).

## 16 - Other Information

### initial statement

### Devitrification

### Product Stewardship Program

Morgan Thermal Ceramics [www.morganthermalceramics.com](http://www.morganthermalceramics.com)

### HMIS HAZARD RATING

HMIS Health	1* (* denotes potential for chronic effects)
HMIS Flammable	0
HMIS Reactivity	0
HMIS Personal Protective Equipment	X (To be determined by user)

### TECHNICAL DATA SHEETS

Left Blank Intentionally (pending datasheet number)

### Revision Summary

Revision date updated.

### MSDS prepared by

SDS Prepared By: MORGAN THERMAL CERAMICS ENVIRONMENTAL, HEALTH & SAFETY DEPARTMENT

### Disclaimer

The information presented herein is presented in good faith and believed to be accurate as of the effective date of this Safety Data Sheet. Employers may use this SDS to supplement other information gathered by them in their efforts to assure the health and safety of their employees and the proper use of the product. This summary of the relevant data reflects professional judgment; employers should note that information perceived to be less relevant has not been included in this SDS. Therefore, given the summary nature of this document, Morgan Thermal Ceramics does not extend any warranty (expressed or implied), assume any responsibility, or make any representation regarding the completeness of this information or its suitability for the purposes envisioned by the user.