

1 Identification

- **Material name: Uni-Extreme**
- **High Temperature Sealant**
- **Manufacturer/Distributor/Supplier Information:**
 McGill AirSeal LLC
 2400 Fairwood Avenue
 Columbus, OH 43207-2700
 Main: 614/829-1200
 Toll Free: 800/624-5535
- **Emergency telephone number: ChemTel 1-800-255-3924 (24 Hrs)**

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS07

- *Acute Tox. 4 H302 Harmful if swallowed.*
- *Skin Irrit. 2 H315 Causes skin irritation.*
- *Eye Irrit. 2A H319 Causes serious eye irritation.*

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Harmful

Harmful if swallowed.



Irritant

Irritating to eyes and skin.

- **Information concerning particular hazards for human and environment:**
The product has to be labeled due to the calculation procedure of international guidelines.

- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**

- **Labeling according to EU guidelines:**
The product has been classified and marked in accordance with directives on hazardous materials.

- **Code letter and hazard designation of product:**



Harmful

- **Hazard-determining components of labeling:**
Refractory Ceramic Fibers (RCF)

- **Risk phrases:**
Harmful if swallowed.
Irritating to eyes and skin.

- **Safety phrases:**
Keep away from food, drink and animal feedingstuffs.

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When using do not eat or drink.
Avoid contact with skin and eyes.
Wear suitable protective clothing, gloves and eye/face protection.
In case of insufficient ventilation, wear suitable respiratory equipment.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of accident by inhalation: remove casualty to fresh air and keep at rest.
After contact with skin, wash immediately with plenty of water
Keep container tightly closed.

· **Additional information:**

Mild mechanical irritation to skin, eyes, and upper respiratory system may result from exposure.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Nonhazardous materials will not be listed separately.

When encapsulated in a liquid mixture, powders are not expected to pose a health hazard when processed under normal conditions of use.

· **Components:**

1344-09-8	Sodium Polysilicate	10-<20%
142844-00-6	Refractory Ceramic Fibers (RCF)	10-<25%
1317-61-9	Black Iron Oxide	2.5-<10%
7631-86-9	Silica	0.1-<1%

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Move to a place with fresh air and keep at rest.

Obtain medical attention if needed.

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- **After skin contact:**
Immediately wash with water
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Get medical attention
- **After swallowing:** Do not induce vomiting; immediately call a doctor.
- **Most important symptoms and effects, both acute and delayed**
Mild mechanical irritation to skin, eyes, and upper respiratory system may result from exposure.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** Aluminum oxide, Silicon oxides
- **Advice for firefighters** Wear self-contained breathing apparatus, if necessary
- **Protective equipment:** Use personal protective equipment.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
HEPA vacuum
Wet down area before clean up.
Do not use compressed air or dry sweeping.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities** Store away from acids and flammable materials.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep in sealed containers
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep sealed container(s) at room temperature
Recommended to keep in a cool, dry condition atmosphere.
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**
The lists that were valid during the creation were used as basis.
Precautions to be taken AFTER use and upon removal
This product as manufactured is a Silicate which contains encapsulated silica. It is not considered respirable in the liquid form or cured form. If the cured cement is heated the silica could transform to mullite and cristobalite (a form of crystalline silica). Removal of this product in the cured state is by mechanical means. This may cause the generation of dust, repeated inhalation of respirable, free crystalline silica dust may cause lung injury (silicosis).
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from food, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not eat or drink while working.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Impervious gloves
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Putty
Color:	Grey
Odor:	Characteristic
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Not applicable.
Boiling point/Boiling range:	100 °C (212 °F)
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not Applicable.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.

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- **Explosion limits:**
 - Lower: Not Applicable
 - Upper: Not Applicable.
- **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)
- **Density:** Not determined.
- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Solvent content:**
 - Organic solvents: <2.5 %
 - Other information: No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability:** Stable
- **Thermal decomposition / conditions to be avoided:** Not applicable.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** Strong acids
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

7631-86-9 Silica

Oral	LD50	5000 - 10000 mg/kg (Rat) (OECD Guideline 401)
Dermal	LD50	> 5000 mg/kg (Rabbit)
Inhalative	LC0	> 140 - > 2000 mg/l (Rat) (OECD Guideline 403) 4 hours Maximum attainable concentration, mortality does not appear.

- **Primary irritant effect:**
- **On the skin:** Irritating to skin.
- **On the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Irritant

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

142844-00-6	Refractory Ceramic Fibers (RCF)	2B
13983-17-0	Calcium silicate	3
7631-86-9	Silica	3

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14808-60-7	Quartz (SiO ₂)	I
· NTP (National Toxicology Program)		
None of the materials are listed		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the materials are listed		

12 Ecological information

· Toxicity

· Aquatic toxicity:

7631-86-9 Silica

EC50/24 h	> 1000 mg/l (Daphnia magna) (OECD Guideline 202)
EC50/72 h	> 10000 mg/l (Scenedesmus subspicatus) (OECD Guideline 201) Comparable substance
LC0/96 h (static)	10000 mg/l (Zebra Fish) (OECD Guideline 203)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Dispose material in accordance with federal, state, local and international regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated for Transport
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Not Regulated for Transport
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Not Regulated for Transport

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- **Packing group**
· **DOT, ADR, IMDG, IATA** Not Regulated for Transport
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA**

· **Section 313 (specific toxic chemical listings):**

107-21-1 Ethylene Glycol

· **Section 302 (extremely hazardous substance):**

None of the ingredients are listed

· **Section 304 (emergency release notification):**

None of the ingredients are listed

· **Sections 311/312 (hazards)**

142844-00-6	Refractory Ceramic Fibers (RCF)	Chronic
1332-58-7	Hydrous Aluminum Silicate	Chronic
7631-86-9	Silica	Chronic, Acute
8031-18-3	Fuller's Earth	Chronic, Acute
1302-78-9	Montmorillonite	Chronic
14808-60-7	Quartz (SiO2)	Chronic

· **TSCA (Toxic Substances Control Act) (Substances not listed):**

142844-00-6	Refractory Ceramic Fibers (RCF)
13983-17-0	Calcium silicate

· **Proposition 65**

· **Chemicals known to cause cancer:**

142844-00-6	Refractory Ceramic Fibers (RCF)
1332-58-7	Hydrous Aluminum Silicate
14808-60-7	Quartz (SiO2)

· **Chemicals known to cause reproductive toxicity:**

14808-60-7	Quartz (SiO2)
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· **Chemicals known to cause reproductive toxicity for females:**

None of the materials are listed

· **Chemicals known to cause reproductive toxicity for males:**

14808-60-7	Quartz (SiO2)
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· **Chemicals known to cause developmental toxicity:**

None of the materials are listed

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· Pennsylvania Right To Know Components		
1344-09-8	Sodium Polysilicate	
142844-00-6	Refractory Ceramic Fibers (RCF)	
1317-61-9	Black Iron Oxide	
1332-58-7	Hydrous Aluminum Silicate	
1309-48-4	Magnesium Oxide	
7631-86-9	Silica	
8031-18-3	Fuller's Earth	
1302-78-9	Montmorillonite	
1310-73-2	Sodium Hydroxide	
14808-60-7	Quartz (SiO ₂)	
· Massachusetts Right To Know Components		
1317-61-9	Black Iron Oxide	
1332-58-7	Hydrous Aluminum Silicate	
1309-48-4	Magnesium Oxide	
7631-86-9	Silica	
1310-73-2	Sodium Hydroxide	
14808-60-7	Quartz (SiO ₂)	
· New Jersey Right To Know Components		
1344-09-8	Sodium Polysilicate	
142844-00-6	Refractory Ceramic Fibers (RCF)	
1317-61-9	Black Iron Oxide	
1332-58-7	Hydrous Aluminum Silicate	
1309-48-4	Magnesium Oxide	
7631-86-9	Silica	
8031-18-3	Fuller's Earth	
1302-78-9	Montmorillonite	
1310-73-2	Sodium Hydroxide	
14808-60-7	Quartz (SiO ₂)	
· Rhode Island Right To Know Components		
1317-61-9	Black Iron Oxide	
· Minnesota Right To Know Components		
1317-61-9	Black Iron Oxide	
· Florida Right To Know Components		
1317-61-9	Black Iron Oxide	
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
None of the ingredients are listed		
· TLV (Threshold Limit Value established by ACGIH)		
1332-58-7	Hydrous Aluminum Silicate	A4
1309-48-4	Magnesium Oxide	A4
107-21-1	Ethylene Glycol	A4

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14808-60-7	Quartz (SiO ₂)	A2
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO ₂)	

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Harmful

· **Hazard-determining components of labeling:**

Refractory Ceramic Fibers (RCF)

· **Risk phrases:**

Harmful if swallowed.
Irritating to eyes and skin.

· **Safety phrases:**

Keep away from food, drink and animal feedingstuffs.
When using do not eat or drink.
Avoid contact with skin and eyes.
Wear suitable protective clothing, gloves and eye/face protection.
In case of insufficient ventilation, wear suitable respiratory equipment.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of accident by inhalation: remove casualty to fresh air and keep at rest.
After contact with skin, wash immediately with plenty of water
Keep container tightly closed.

16 Other information

To the best of our knowledge, the information contained herein is correct. McGill AirSeal LLC does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. We do not guarantee that the hazards described herein are the only hazards that exist.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

* Data compared to the previous version altered.