

# SAFETY DATA SHEET

Issuing Date 14-June-2018

Revision Date 3-Oct-23

Revision Number 2  
NGHS / English



## 1. IDENTIFICATION

### Product identifier

**Product Name** Ceramic Welding Material

### Other means of identification

**Product Code(s)** HWC-AZS-2

### Recommended use of the chemical and restrictions on use

**Recommended Use** Professional Use Only

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

**Supplier Identification** Fuse Tech Inc.

**Address** 546 N. Main St.  
Cadiz, OH 43907

**Telephone** Phone 740-942-3565 (M-F , 8AM - 4PM, EST)

**Company Emergency Phone Number** (800) 301-3873

## 2. HAZARDS IDENTIFICATION

### Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

**Appearance** Gray-Tan

**Physical state** Solid

**Odor** Odorless

### GHS Label elements, including precautionary statements

**Danger**

## 2. HAZARDS IDENTIFICATION - CONTINUED

### Hazard statements

Causes skin irritation  
Causes serious eye irritation  
May cause cancer  
Causes damage to organs  
Causes damage to organs through prolonged or repeated exposure



### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not breathe dust/fume/gas/mist/vapors/spray  
Do not eat, drink or smoke when using this product

### Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)  
IF exposed: Call a POISON CENTER or doctor

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

#### Skin

IF ON SKIN: Wash with plenty of water and soap  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash it before reuse

### Precautionary Statements - Storage

Store locked up

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

### Other information

Harmful to aquatic life with long lasting effects.

**Unknown acute toxicity** 10-60 % of the mixture consists of ingredient(s) of unknown toxicity

10-60 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

10-60 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

10-60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

10-60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

10-60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS - CONTINUED

#### Mixture

Chemical name	CAS No	Weight-%
Fused Silica	7631-86-9	30-50
Aluminum Oxide	1344-28-1	10-30
Zirconium Silicate, (Zircon)	14940-68-2	10-30
Zirconium Oxide, (Zirconia)	1314-23-4	<30
Silicon	7440-21-3	10-20
Fused Silica	60676-86-0	<10
Aluminum	7429-90-5	<5
Calcium Oxide	1305-78-8	<5
Carbon	7440-44-0	<5
Hafnium Oxide	12055-23-1	<5
Magnesium Oxide	1309-48-4	<5
Quartz	14808-60-7	<5
Sodium Oxide	1313-59-3	<5
Yttrium Oxide (Yttria)	1314-36-9	<5

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
<b>Skin contact</b>	If symptoms persist, call a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

## 5. FIRE-FIGHTING MEASURES - CONTINUED

<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Hazardous Combustion Products</b>	Product is non-combustible.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	None.
<b>Sensitivity to Static Discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.
<b>Other Information</b>	Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.
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### Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place.
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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fused Silica 7631-89-9	10 mg/m <sup>3</sup>	20 mppcf TWA; ((80)/(% SiO <sub>2</sub> )) mg/m <sup>3</sup> )	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION-CONTINUED

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum Oxide 1344-28-1	TWA: 1 mg/m <sup>3</sup> respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	
Zirconium Silicate, (Zircon) 14940-68-2	STEL: 10 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> Zr (vacated) TWA: 5 mg/m <sup>3</sup> Zr (vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr STEL: 10 mg/m <sup>3</sup> Zr
Zirconium Oxide, (Zirconia) 1314-23-4	STEL: 10 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> Zr	TWA: 5 mg/m <sup>3</sup> Zr (vacated) TWA: 5 mg/m <sup>3</sup> Zr (vacated) STEL: 10 mg/m <sup>3</sup> Zr	IDLH: 25 mg/m <sup>3</sup> Zr TWA: 5 mg/m <sup>3</sup> except Zirconium tetrachloride Zr STEL: 10 mg/m <sup>3</sup> Zr
Silicon 7440-21-3	-	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Fused Silica 60676-86-0	-	TWA: 20 mppcf respirable dust TWA: respirable dust (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> (vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (80)/(% SiO <sub>2</sub> ) mg/m <sup>3</sup> TWA TWA: 20 mppcf	
Aluminum 7429-90-5	TWA: 1 mg/m <sup>3</sup> respirable particulate matter	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Calcium Oxide 1305-78-8	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 25 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>
Hafnium Oxide 12055-23-1	TWA: 0.5 mg/m <sup>3</sup> Hf	-	IDLH: 50 mg/m <sup>3</sup> Hf TWA: 0.5 mg/m <sup>3</sup> Hf
Magnesium Oxide 1309-48-4	TWA: 10 mg/m <sup>3</sup> inhalable fraction	TWA: 15 mg/m <sup>3</sup> fume, total particulate (vacated) TWA: 10 mg/m <sup>3</sup> total particulate	IDLH: 750 mg/m <sup>3</sup> fume
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	TWA: 0.1 mg/m <sup>3</sup> (vacated)	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Yttrium Oxide, (Yttria) 1314-36-9	TWA: 1 mg/m <sup>3</sup> Y	-	IDLH: 500 mg/m <sup>3</sup> Y TWA: 1 mg/m <sup>3</sup> Y

Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Aluminum Oxide 1344-28-1	TWA: 10 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Zirconium Silicate, (Zircon) 14940-68-2	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION-CONTINUED

Chemical name	Alberta	British Columbia	Ontario TWAEV	Quebec
Zirconium Oxide, (Zirconia) 1314-23-4	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Silicon 7440-21-3		TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>
Fused Silica 60676-86-0			TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
Aluminum 7429-90-5	TWA: 10 mg/m <sup>3</sup>	TWA: 1.0 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Calcium Oxide 1305-78-8	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>
Hafnium Oxide 12055-23-1	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	
Magnesium Oxide 1309-48-4	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Quartz 14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.10 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
Yttrium Oxide, (Ytria) 1314-36-9	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

**Other Exposure Guidelines**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

**Appropriate engineering controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Safety glasses or goggles when there is a reasonable probability of projectiles or high airborne particulate concentration.

**Hand protection**

Suitable for protection against direct skin contact with fine particles.

**Skin and body protection**

Adequate footwear (safety shoes if necessary) and clothing that protects skin from prolonged or repeated contact with dust. Change clothing if there is a reasonable probability of excessive dust contamination.

**Respiratory protection**

When engineering or administrative controls cannot maintain exposures below OSHA permissible limits, use an appropriate NIOSH approved respirator. If respiratory protection is required, all requirements as set forth in 29 CFR 1910.134 must be met. A Certified Industrial Hygienist or other competent health and safety professional should be consulted for respirator selection, fit testing, and training.

**General hygiene considerations**

If airborne dust is generated, provide general dilution ventilation and/or local exhaust ventilation sufficient to maintain personal exposures below OSHA permissible exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid
<b>Appearance</b>	Granular Powder
<b>Odor</b>	Odorless
<b>Color</b>	Gray-Tan
<b>Odor Threshold</b>	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	No data available	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Relative density	7-9	None known	
Water Solubility	Insoluble in water		
Solubility(ies)	No data available	None known	
Partition coefficient: n-octanol/water	N/A		
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	

### Other Information

<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk Density</b>	No information available
<b>Particle Size</b>	No information available
<b>Particle Size Distribution</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	Calcium oxides. Thermal decomposition can lead to release of irritating gases and vapors. Product will not decompose spontaneously. Thermal decomposition is unlikely, but may occur at temperatures above 3000°C (5000°F).

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). Irritating to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

#### Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 13,425.70 mg/kg

**Unknown acute toxicity** 10-60 % of the mixture consists of ingredient(s) of unknown toxicity

10-60 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

10-60 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

10-60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

10-60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

10-60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Fused Silica	= 7900 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 58.8 mg/L ( Rat ) 4 h
Aluminum Oxide	> 5000 mg/kg ( Rat )	-	-
Zirconium Oxide, (Zirconia)	-	-	> 4.3 mg/L ( Rat ) 4 h
Silicon	= 3160 mg/kg ( Rat )	-	-
Aluminum	-	-	> 0.888 mg/L ( Rat ) 4 h
Calcium Oxide	= 500 mg/kg ( Rat )	-	> 6.04 mg/L ( Rat ) 4 h
Magnesium Oxide	= 3870 mg/kg ( Rat ) = 3990 mg/kg ( Rat )	-	-
Yttrium Oxide (Yttria)	-	-	> 5.09 mg/L ( Rat ) 4 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Classification based on data available for ingredients. Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Classification based on data available for ingredients. Causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	No information available.

## 11. TOXICOLOGICAL INFORMATION – CONTINUED

**Carcinogenicity** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Fused Silica 7631-86-9	-	Group 3	-	X
Fused Silica 60676-86-0	-	Group 3	-	-
Quartz 14808-60-7	A2	Group 1	Known	X

### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

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

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** Based on the classification criteria of the Globally Harmonized System as adopted in the country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). Causes damage to organs.

**STOT - repeated exposure** Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Fused Silica	72h EC50: = 440 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 5000 mg/L (Brachydanio rerio)	No data available	48h EC50: = 7600 mg/L (Ceriodaphnia dubia)
Zirconium Oxide, (Zirconia)	No data available	96h LC50: > 100 mg/L (Danio rerio)	No data available	No data available
Calcium Oxide	No data available	96h LC50: = 1070 mg/L (Cyprinus carpio)	No data available	No data available

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

**Other adverse effects** No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
<b>Contaminated packaging</b>	Do not reuse empty containers.
<b>California Waste Codes</b>	141

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Aluminum 7429-90-5	Ignitable powder
Calcium Oxide 1305-78-8	Corrosive

### 14. TRANSPORT INFORMATION

<b><u>DOT</u></b>	NOT REGULATED
<b>Proper Shipping Name</b>	NON-REGULATED
<b>Hazard Class</b>	N/A
<b><u>TDG</u></b>	Not applicable
<b><u>MEX</u></b>	Not applicable
<b><u>ICAO</u></b>	Not applicable
<b><u>IATA</u></b>	Not applicable
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<b><u>IMDG/IMO</u></b>	Not applicable
<b>Hazard Class</b>	N/A
<b><u>RID</u></b>	Not applicable
<b><u>ADR</u></b>	Not applicable
<b><u>ADN</u></b>	Not applicable

### 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

## 15. REGULATORY INFORMATION - CONTINUED

### International Inventories

<b>TSCA</b>	All ingredients are on the inventory or exempt from listing.
<b>DSL/NDL</b>	Not evaluated.
<b>EINECS/ELINCS</b>	Not evaluated.
<b>ENCS</b>	Not evaluated.
<b>KECL</b>	Not evaluated.
<b>PICCS</b>	Not evaluated.
<b>AICS</b>	Not evaluated.

### Legend

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Aluminum Oxide - 1344-28-1	1344-28-1	20-70	1.0
Aluminum - 7429-90-5	7429-90-5	<5	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65
Fused Silica - 7631-86-9	carcinogen, 10/1/1988 (airborne particles of respirable size)
Quartz - 14808-60-7	carcinogen, 10/1/1988 (airborne particles of respirable size)

#### U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations

### 15. REGULATORY INFORMATION - CONTINUED

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Fused Silica 7631-86-9		X	X		
Aluminum Oxide 1344-28-1	X	X	X	X	
Zirconium Oxide, (Zirconia) 1314-23-4		X			
Silicon 7440-21-3	X	X	X		
Fused Silica 60676-86-0	X	X			
Aluminum 7429-90-5	X	X	X	X	
Calcium Oxide 1305-78-8	X	X	X		
Magnesium Oxide 1309-48-4	X	X	X		
Quartz 14808-60-7	X	X	X		X

### 16. OTHER INFORMATION

<b>NFPA</b>	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties -
<b>HMIS</b>	Health hazards 3 *	Flammability 0	Physical hazards 0	Personal Protection X
<i>Chronic Hazard Star Legend</i>	<i>* = Chronic Health Hazard</i>			

<b>Issuing Date</b>	14-Jun-2018
<b>Revision Date</b>	3-Oct-23
<b>Revision Note</b>	No information available

**Disclaimer**

Details presented in this SDS were derived from literature sources and regulatory documents believed to be accurate and authoritative. The purpose of this SDS is to serve as a general guide to users of this product. It is the user's responsibility to determine acceptability of this product for their application, to ensure safe usage of this product, and to comply with all applicable federal, state and local regulations. The user must satisfy requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and any other applicable occupational health and environmental regulations. This SDS is not intended as a total regulatory compliance document, nor should it be construed as a license or a recommendation to violate any law or infringe on any patent.

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**End of Safety Data Sheet**