



Vesuvius USA  
495 Emma Street, Bettsville, Ohio 44815

## Safety Data Sheet

<b>SUPER #3000® Mix 26</b>	<b>SDS Number</b> SDS-30172 <b>Revision:</b> 1 <b>Legacy Number:</b> LEY10235
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### Preparation Information:

<b>Site:</b> All	Contact Deb Cook @ (419) 986-5126 for further product information or medical emergency during normal business hours.
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### Section 1: Product and Company Identification

<b>Product Name:</b> SUPER #3000® Mix 26	<b>Chemical Name:</b> Mixture	<b>Formula:</b> N/A	<b>CAS Number:</b> N/A
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<b>Product Use:</b> Advanced Refractories
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### Supplier Information:

<b>Supplier Name:</b> Vesuvius USA	<b>Supplier Phone:</b> (419) 986-5126
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### Supplier Address:

495 Emma Street Bettsville, OH 44815
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### Manufacturer Information:

<b>Manufacturer Name:</b> Vesuvius USA	<b>Manufacturer Phone:</b> (419) 986-5126
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### Manufacturer Address:

495 Emma Street Bettsville, OH 44815
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### Emergency Contact Information:

CHEMTREC (800) 424-9300 (USA) CANUTEC (613) 996-6666 (CANADA)
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**Section 2: Hazard(s) Identification**

<p><b>Hazard Classification:</b>                  Skin Corrosion/Irritation - Category 2                  Serious Eye Damage/Eye Irritation - Category 2                  Carcinogenicity - Category 1A                  Specific Target Organ Toxicity, Single Exposure - Category 2                  Specific Target Organ Toxicity, Repeated or Prolonged Exposure - Category 1</p>			
<p><b>Signal Word:</b>                  Danger</p>			
<p><b>Hazard Statement(s):</b>                  Causes mild skin irritation                  Causes eye irritation                  May cause respiratory irritation                  May cause damage to lungs through prolonged or repeated exposure through inhalation, due to dust from cutting or tear-out.                  May cause cancer (silicosis)</p>			
<p><b>Pictograms:</b></p> 			
<p><b>Precautionary Statement(s):</b></p>			
<p><b>Prevention</b>                  Do not eat, drink, or smoke when using this product.                  Use only outdoors or in a well-ventilated area.                  Use personal protective equipment as required.                  Wash thoroughly after handling.</p>	<p><b>Response</b>                  If eye irritation persists, remove contact lenses if necessary and rinse eyes with water. Seek medical attention if needed.                  If skin is irritated, wash with plenty of soap and water. Seek medical attention if needed.                  If breathing is difficult, remove victim to fresh air and keep at rest in comfortable position, seek medical advice/attention.</p>	<p><b>Storage</b>                  Store in a dry place.</p>	<p><b>Disposal</b>                  Check with local, state and federal regulations.</p>
<p><b>Hazards not Otherwise Classified:</b>                  N/A</p>			
<p><b>Percentage of the mixture consisting of ingredients of unknown toxicity:</b>                  N/A</p>			

**Section 3: Composition/Information on Ingredients**

Ingredient:	CAS No. / Other Identifiers:	% Weight:
Cristobalite, Crystalline Silca	14464-46-1	1-5
Fused Silica	60676-86-0	1-5
Sodium Silicate	1344-09-8	15-25
Quartz, Crystalline Silica	14808-60-7	3-7
Aluminosilicate	1302-93-8	70-80

### Section 4: First Aid Measures

<p><b>Emergency Overview:</b> Sodium silicate component is a corrosive alkaline material. Some risk by inhalation. Prolonged skin contact may produce irritation/inflammation.</p>
<p><b>Potential Health Effects:</b> Preexisting lung conditions such as, but not limited to bronchitis, emphysema, and/or asthma.</p>
<p><b>Chronic Health Hazards:</b> Prolonged inhalation of product dust may cause lung damage. Prolonged and/or repeated inhalation of crystalline silica can cause silicosis of the lungs.</p>
<p><b>Medical Conditions Generally Aggravated by Exposure:</b> Pre-existing skin and respiratory ailments.</p>

**Routes of Entry:**

<b>Eyes?</b> Yes	<b>Skin?</b> Yes	<b>Inhalation?</b> Yes	<b>Ingestion?</b> No	<b>Other?</b> N/A
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**Carcinogenicity:**

<b>NTP?</b> No	<b>IARC?</b> Yes	<b>OSHA?</b> No	<b>WHMIS?</b> Yes	<b>Other?</b> N/A
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**Details:**

IARC classifies Fused Silica as a category 3 carcinogen. IARC has determined there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica and so it is categorized as a Group 1 carcinogen. NTP has classified respirable crystalline silica as a known human carcinogen and ACGIH has classified it as a suspected human carcinogen.

<p><b>Eye Contact:</b> Immediately flush with water for at least 15 minutes. If irritation persists, consult physician.</p>
<p><b>Skin Contact:</b> Immediately wash with cold water. If irritation persists, consult physician.</p>
<p><b>Inhalation:</b> Remove person to fresh air. If problems persist, consult physician.</p>
<p><b>Ingestion:</b> N/A</p>

### Section 5: Fire-Fighting Measures

<b>Flash Point:</b> N/A	<b>Auto-Ignition:</b> N/A	<b>LEL:</b> N/A	<b>UEL:</b> N/A
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**NFPA Hazard Classification:**

<b>Health:</b> 2	<b>Flammable:</b> 0	<b>Reactivity:</b> 0	<b>Special Hazard:</b> N/A
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**HMIS Hazard Classification:**

<b>Health:</b> 2	<b>Flammable:</b> 0	<b>Reactivity:</b> 0	<b>PPE:</b> E
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<b>Extinguishing Media:</b>
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## SDS for SUPER #3000® Mix 26

No special instructions or conditions.

### Special Fire Fighting Procedures:

No special instructions.

### Unusual Fire and Explosion Hazards:

SENSITIVITY TO MECHANICAL IMPACT: N/A

SENSITIVITY TO STATIC DISCHARGE: N/A

OTHER: N/A

## Section 6: Accidental Release Measures

Sweep or pick up with vacuum cleaner. Minimize dust levels and wear dust mask.

## Section 7: Handling and Storage

Store in dry place below 150 degrees F. Minimize skin contact.

## Section 8: Exposure Controls/Personal Protection

Exposure Limits Ingredient	PEL-OSHA	TLV-ACGIH	Other
Aluminosilicate	5 mg/M3 (respirable)	5 mg/M3 (Inhalable fraction)	N/A
Quartz, Crystalline Silica	10mg/M3 /(%SiO+2) (respirable)	0.025 mg/M3 (respirable)	N/A
Cristobalite, Crystalline Silica	10mg/M3/ 2(%SiO+2) (respirable)	0.025 mg/M3 (respirable)	N/A

### Details:

N/A

### Respiratory Protection:

If PEL/TLV is exceeded, use NIOSH approved mask/respirator for above listed ingredients.

### Ventilation

LOCAL: N/A

SPECIAL: N/A

MECHANICAL: As required to maintain levels below the listed PEL/TLVs.

ENGINEERING CONTROLS: N/A

### Protective Equipment:

GLOVES: Polypropylene

EYE: safety glasses

CLOTHING:

### Personnel Sampling Procedure:

### PPE Symbols Displayed:



**Section 9: Physical and Chemical Properties**

	<b>Chemical Properties</b>
<b>Appearance (physical state, color, etc.):</b>	A wet gray/brown mixture of fine materials
<b>Odor:</b>	None
<b>Odor threshold:</b>	N/A
<b>pH:</b>	10-11 (10% aqueous slurry)
<b>Melting point/freezing point:</b>	N/A
<b>Initial boiling point and boiling range:</b>	N/A
<b>Flash point:</b>	N/A
<b>Evaporation rate:</b>	N/A
<b>Flammability (solid, gas):</b>	N/A
<b>Upper/lower flammability or explosive limits:</b>	N/A
<b>Vapor pressure:</b>	N/A
<b>Vapor density:</b>	N/A
<b>Relative density:</b>	N/A
<b>Solubility(ies):</b>	<1% (water)
<b>Partition coefficient: n-octanol/water:</b>	N/A
<b>Auto ignition temperature:</b>	N/A
<b>Decomposition temperature:</b>	N/A
<b>Viscosity:</b>	N/A
<b>Other Relevant Properties:</b>	N/A

**Section 10: Stability and Reactivity**

<b>Stability:</b> Stable	<b>Avoid:</b> N/A
<b>Reactivity:</b> N/A	<b>Avoid:</b> N/A
<b>Other:</b> N/A	
<b>Incompatibility:</b> None	
<b>Hazardous Decomposition of By-products</b> None	
<b>Polymerization:</b> Will not occur	<b>Avoid:</b> N/A

**Section 11: Toxicological Information**

Chemical Name	% Wt.	LD50	LC50	Route of Exposure:	Short / Long Term Exposure Effects:	Known Carcinogen:
Fused Silica	1-5	N/A	N/A	Inhalation	Irritation of mucous membranes	Yes
Quartz	1-5	N/A	N/A	Inhalation	May develop Silicosis	Yes
Cristobalite	1-5	N/A	N/A	Inhalation	May develop Silicosis	Yes

**Other Studies:**  
N/A

**Section 12: Ecological Information**

**Ecotoxicity:**  
N/AV

**Environmental Fate:**  
N/AV

**Section 13: Disposal Considerations**

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

**Section 14: Transport Information**

**International**  
N/A

**United States**  
N/A

**Canada**  
SHIPPING NAME: N/A  
P.I.N/UN: N/A  
PRIMARY CLASS: N/A  
SUBSIDIARY CLASS: N/A  
PACKING GROUP: N/A

**European Community**  
N/A

**Section 15: Regulatory Information**

**US Federal Regulations**

**TSCA**  
All components of this product are included on the EPA TSCA Chemical Substance Inventory.

**SDS for SUPER #3000® Mix 26**

**SARA 311 and 312 Hazard Categories:**

<b>Immediate (Acute) Health Hazard:</b>	Yes
<b>Delayed (Chronic) Health Hazard:</b>	Yes
<b>Fire Hazard:</b>	No
<b>Reactivity:</b>	No
<b>Sudden Release of Pressure:</b>	No

<p><b>SARA Section 313 Notification:</b> This product no contains toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.</p>
<p><b>Ozone Depleting Substances:</b> N/A</p>
<p><b>Volatile Organic Compounds (VOC):</b> N/A</p>
<p><b>US State Regulation:</b> California Prop 65: Crystalline Silica</p>
<p><b>Canadian Regulation:</b></p> <p><b>WHMIS CLASSIFICATION: D2A, D2B, E</b> This Product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.</p>
<p><b>European Regulation:</b> N/A</p>
<p><b>Other Regulation:</b></p>
<p><b>MITI:</b> N/A</p>

<p>N/A is Not Applicable N/K is Not Known N/AV is Not Available</p>
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**Section 16: Other Information**

<p><b>Removal After Service/Tear-Out Precautions:</b></p> <p><b>Because of the possible presence of crystalline silica in used refractory debris, particular care should be exercised during tear-out to minimise the generation of dust. Adherence to proper methods of dust suppression and control is imperative. The following precautions should be taken during tear-out.</b></p> <ol style="list-style-type: none"> <li>1.) Employees should be apprised of the hazards and proper conditions and precautions for safe use or exposure.</li> <li>2.) Approved respirators, in accordance with requirements of federal regulations, should be used for dust levels above established exposure limits for respirable crystalline silica.</li> <li>3.) Dust generation should be minimised by the use of dust control equipment or water spray.</li> <li>4.) Wear protective clothing and vacuum clean prior to removing clothing.</li> <li>5.) Where there is a possibility of exposure to dust containing respirable crystalline silica, the following warning should be posted.</li> </ol>				
<table border="1" style="margin: auto;"> <tr> <td><b>FREE SILICA WORK AREA</b></td> <td><b>AVOID BREATHING DUST</b></td> </tr> <tr> <td colspan="2"><b>DUST MAY CAUSE DELAYED LUNG INJURY</b></td> </tr> </table>	<b>FREE SILICA WORK AREA</b>	<b>AVOID BREATHING DUST</b>	<b>DUST MAY CAUSE DELAYED LUNG INJURY</b>	
<b>FREE SILICA WORK AREA</b>	<b>AVOID BREATHING DUST</b>			
<b>DUST MAY CAUSE DELAYED LUNG INJURY</b>				

(SILICOSIS)

**Document Revision History:**

<b>Revision:</b> 1	<b>Date Created:</b> 11/18/2014 <b>Date of Last Revision:</b> 03/11/2015	<b>Last Approval Date:</b> 03/11/2015
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<b>Document Author:</b> Deb Cook	
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<b><u>SDS Status:</u></b>
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**Disclaimer**

Information contained within this safety data sheet is based on the current state of knowledge and relates to such products, their intended usage and the required safety precautions. Although every effort has been made to ensure that this information is correct and gives adequate safety margins in line with current knowledge, it does not constitute a specification and no information for other purposes, particularly information regarding properties of the delivered materials, may be inferred. Determination of the technical suitability of each material and complying with any guidance relating to safe usage remain the sole responsibility of the user. Consequently, beyond any separately agreed contractual arrangements, the aforementioned manufacturer and its subsidiaries exclude any and all liability resulting from the use of the product. Unknown hazards may be inherent in all materials; therefore these materials shall be treated with caution. Although certain hazards are described herein, we are unable to guarantee that these are the only hazards.

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