



Vesuvius USA
4604 Campbells Run Road, Pittsburgh, Pennsylvania 15205

Safety Data Sheet

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| LADLE SHROUD (BC40776) | SDS Number SDS-31919 Revision: 1 Legacy Number: |
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Preparation Information:

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| Site: All | Contact Owen Daly @ (412) 788-4441 or further product information or medical emergency during normal business hours. |
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Section 1: Product and Company Identification

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|---|--|------------------------|---------------------------|
| Product Name: LADLE SHROUD (BC40776) | Chemical Name: Refractory Part/article | Formula: N/A | CAS Number: N/A |
|---|--|------------------------|---------------------------|

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| Product Use: Flow Control--VISO |
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Supplier Information:

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|---------------------------------------|--|
| Supplier Name: Vesuvius USA | Supplier Phone: (412) 788-4441 |
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Supplier Address:

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|---|
| 4604 Campbells Run Road Pittsburgh, PA 15205 |
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Manufacturer Information:

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| Manufacturer Name: Vesuvius USA | Manufacturer Phone: 412-788-4441 |
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Manufacturer Address:

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| 4604 Campbells Run Road Pittsburgh, PA 15205 |
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Emergency Contact Information:

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| CHEMTREC (800) 424-9300 (USA and Canada) |
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SDS for LADLE SHROUD (BC40776)

Section 2: Hazard(s) Identification

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|--|------------------------|---|---|
| Hazard Classification: Not Classified | | | |
| Signal Word: N/A | | | |
| Hazard Statement(s): None | | | |
| Pictograms: None | | | |
| Precautionary Statement(s): | | | |
| Prevention N/A | Response N/A | Storage Store in a dry place. | Disposal Check with local, state and federal regulations. |
| Hazards not Otherwise Classified: Combustable Dusts | | | |
| Percentage of the mixture consisting of ingredients of unknown toxicity: N/A | | | |

Section 3: Composition/Information on Ingredients

| Ingredient: | CAS No. / Other Identifiers: | % Weight: |
|-----------------------------|-------------------------------------|------------------|
| Fused Silica | 60676-86-0 | 3-7 |
| Coke | 64743-04-0 | 7-14 |
| Graphite | 7782-42-5 | 20-30 |
| Silicon | 7440-21-3 | 2-9 |
| Aluminum Oxide, non-fibrous | 1344-28-1 | 52-65 |

Section 4: First Aid Measures

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| Emergency Overview: This product is a fired refractory shape and so presents minimal hazards. |
| Potential Health Effects: None are expected because of the physical nature of this product. It is essentially a coherent non-dusty product. |
| Chronic Health Hazards: If dust is created by breaking or abrading, prolonged and/or repeated inhalation of crystalline silica dusts may cause cancer and silicosis of the lungs |
| Medical Conditions Generally Aggravated by Exposure: Pre-existing skin and respiratory ailments. |

Routes of Entry:

| | | | | |
|---------------------|---------------------|---------------------------|-------------------------|----------------------|
| Eyes? Yes | Skin? Yes | Inhalation? Yes | Ingestion? No | Other? N/A |
|---------------------|---------------------|---------------------------|-------------------------|----------------------|

Carcinogenicity:

| | | | | |
|-------------------|--------------------|--------------------|---------------------|----------------------|
| NTP? No | IARC? No | OSHA? No | WHMIS? No | Other? N/A |
|-------------------|--------------------|--------------------|---------------------|----------------------|

Details:

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N/A

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| Eye Contact: Immediately flush with water for a t least 15 minutes. If irritations persists, consult physician. |
| Skin Contact: Immediately wash with cold water. If irritations persists, consult physician. |
| Inhalation: Remove person to fresh air. If problems persist, consult physician. |
| Ingestion: N/A |

Section 5: Fire-Fighting Measures

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|----------------------------|------------------------------|--------------------|--------------------|
| Flash Point: N/A | Auto-Ignition: N/A | LEL: N/A | UEL: N/A |
|----------------------------|------------------------------|--------------------|--------------------|

NFPA Hazard Classification:

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|---------------------|------------------------|-------------------------|-------------------------------|
| Health: 1 | Flammable: 0 | Reactivity: 0 | Special Hazard: N/A |
|---------------------|------------------------|-------------------------|-------------------------------|

HMIS Hazard Classification:

| | | | |
|---------------------|------------------------|-------------------------|------------------|
| Health: 1 | Flammable: 0 | Reactivity: 0 | PPE: E |
|---------------------|------------------------|-------------------------|------------------|

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| Extinguishing Media: 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

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| Sweep or pick up with vacuum cleaner. Minimize dust levels and wear dust mask. |
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Section 7: Handling and Storage

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| Store in dry place below 150 degrees F. Minimize skin contact. |
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Section 8: Exposure Controls/Personal Protection

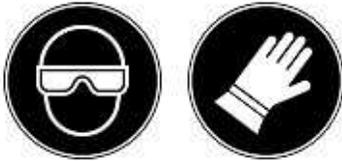
| Exposure Limits Ingredient | PEL-OSHA | TLV-ACGIH | Other |
|----------------------------|----------------------|----------------------|-----------------------------|
| Silicon | 5 mg/M3 (respirable) | N/A | NIOSH: 5 mg/m3 (respirable) |
| Graphite | 15 mpccf | 2 mg/M3 (respirable) | NIOSH: 2.5 mg/M3 |

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|-----------------------------|----------------------|----------------------|--------------|
| | | | (respirable) |
| Coke | 5 mg/M3 (respirable) | 5 mg/M3 (respirable) | N/A |
| Aluminum Oxide, non-fibrous | 5 mg/M3 (respirable) | 1 mg/M3 (respirable) | N/A |
| Fused Silica | 0.05 mg/m3 | N/A | N/A |

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| <p>Details: N/A</p> |
| <p>Respiratory Protection: If PEL/TLV is exceeded, use NIOSH approved mask/respirator for above listed ingredients.</p> |
| <p>Ventilation LOCAL: N/A SPECIAL: N/A MECHANICAL: As required to maintain levels below the listed PEL/TLVs. ENGINEERING CONTROLS: N/A</p> |
| <p>Protective Equipment: GLOVES: anti slip gloves EYE: safety glasses with side shields CLOTHING: long sleeves and foot protection.</p> |
| <p>Personnel Sampling Procedure: N/A</p> |

PPE Symbols Displayed:



Section 9: Physical and Chemical Properties

| | Chemical Properties |
|--|----------------------------|
| Appearance (physical state, color, etc.): | A brown refractory block |
| Odor: | None |
| Odor threshold: | N/A |
| pH: | N/A |
| Melting point/freezing point: | N/A |
| Initial boiling point and boiling range: | N/A |
| Flash point: | N/A |
| Evaporation rate: | N/A |
| Flammability (solid, gas): | N/A |
| Upper/lower flammability or explosive limits: | N/A |
| Vapor pressure: | N/A |
| Vapor density: | N/A |
| Relative density: | N/A |
| Solubility(ies): | N/A |
| Partition coefficient: n-octanol/water: | N/A |
| Auto ignition temperature: | N/A |
| Decomposition temperature: | N/A |
| Viscosity: | N/A |
| Other Relevant Properties: | N/A |

Section 10: Stability and Reactivity

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

Section 11: Toxicological Information

| Chemical Name | % Wt. | LD50 | LC50 | Route of Exposure: | Short / Long Term Exposure Effects: | Known Carcinogen: |
|---------------|-------|------|------|--------------------|-------------------------------------|-------------------|
| N/A | | | | | | |

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.

SARA 311 and 312 Hazard Categories:

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| Immediate (Acute) Health Hazard: | Yes |
| Delayed (Chronic) Health Hazard: | No |
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|------------------------------------|----|
| Fire Hazard: | No |
| Reactivity: | No |
| Sudden Release of Pressure: | No |

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| SARA Section 313 Notification: 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. |
| Ozone Depleting Substances: N/A |
| Volatile Organic Compounds (VOC): N/A |
| US State Regulation: N/A |
| Canadian Regulation: Canadian Environmental Protection Act (CEPA) - All substances in this product are listed, as required, on the Domestic Substance List (DSL). WHMIS CLASSIFICATION: See Section 2 for GHS Hazard Classification 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. |
| European Regulation: N/A |
| Other Regulation: |
| MITI: N/A |

N/A is Not Applicable
N/K is Not Known
N/AV is Not Available

Section 16: Other Information

Document Revision History:

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|--------------------------------------|---|----------------------------|
| Revision: 1 | Date Created: 07/07/2017 Date of Last Revision: 07/07/2017 | Last Approval Date: |
| Document Author: Owen Daly | | |

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| <u>SDS Status:</u> |
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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.