

## Safety Data Sheet

acc. to OSHA HCS

Date of issue: 05/04/2026

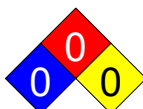
Reviewed on 05/04/2026

### 1 Identification

- **Product identifier**
- **Trade name:** VISIL
- **Other means of identification**
- **Article number:** 2849
- **Restrictions** For industrial use only
- **Application of the substance / the mixture** Shaped refractory material
- **Uses advised against**  
Avoid dry cutting, blasting, or dust generation.  
Users should be informed of the potential presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
HarbisonWalker International Minerals, Inc.  
2000 Park Lane Drive, Suite 400  
Pittsburgh, PA 15275  
412-375-6600
- **Information department:**  
SDS@thinkHWI.com  
+33 (0)2 59 60 31 14  
www.thinkHWI.com

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
According to Chapter 1.5.2 of the UN Globally Harmonized System of classification and labelling of chemicals (GHS), Article 58 (2)(a), and Article 59(2)(b) of (EC) No 1272/2008 (CLP), which amends REACH article 31(1), safety data sheets (SDS) are only required for substances and mixtures that meet the harmonized criteria for physical, health or environmental hazards.  
A Shaped Refractory Material is usually defined as an article in Chemical Regulations, therefore this Safety Data Sheet is not a legal requirement.  
This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear mask, protective gloves/protective clothing/eye protection.  
Observe good industrial hygiene practices. Wash hands after handling. Store in a manner to minimize airborne dust. Dispose of waste and residues in accordance with local authority requirements.
- **Information pertaining to particular dangers for man and environment:**
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 0  
Fire = 0  
Reactivity = 0

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### · HMIS-ratings (scale 0 - 4)

|            |   |                |
|------------|---|----------------|
| HEALTH     | 0 | Health = *0    |
| FIRE       | 0 | Fire = 0       |
| REACTIVITY | 0 | Reactivity = 0 |

### · Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

### · Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

## 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

### · Dangerous components:

|            |                            |     |
|------------|----------------------------|-----|
| 14464-46-1 | CRISTOBALITE               | 10% |
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | 10% |

### · Additional information:

The exact chemical identity and/or percentage (concentration) of the composition has been withheld as a trade secret.

## 4 First-aid measures

### · Description of first aid measures

· **General information:** Dust may cause temporary irritation in the eyes.

· **After inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

### · After skin contact:

Wash off with soap and water. Get medical attention if irritation develops and persists.

· **After eye contact:** Rinse with water. Get medical attention if irritation develops and persists.

· **After swallowing:** Rinse mouth. Get medical attention if symptoms occur.

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

Dusts may irritate the respiratory tract, skin and eyes.

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

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5 Fire-fighting measures

### · Extinguishing media

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

### · Advice for firefighters

· **Protective equipment:** No special measures required.

## 6 Accidental release measures

### · Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Minimize airborne dust. Compressed air or dry sweeping should not be used for cleaning. See Section 8 "Exposure Controls / Personal Protection" for exposure guidelines.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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- **Methods and material for containment and cleaning up:**  
Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.
- **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

- **Precautions for safe handling**  
Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.  
Avoid prolonged exposure. Observe good industrial hygiene practices.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a manner to minimize airborne dust.
- **Information about storage in one common storage facility:**  
Store in a manner to minimize airborne dust.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**60676-86-0 Silica, fused**

|     |                                                   |
|-----|---------------------------------------------------|
| PEL | 20mppcf or 80mg/m <sup>3</sup> /%SiO <sub>2</sub> |
| TLV | TLV withdrawn                                     |

**14464-46-1 CRISTOBALITE**

|     |                                                                                                  |
|-----|--------------------------------------------------------------------------------------------------|
| PEL | Long-term value: 0.05* mg/m <sup>3</sup><br>*resp. dust; ½ value from resp. dust formulae Quartz |
| REL | Long-term value: 0.05* mg/m <sup>3</sup><br>*respirable dust; See Pocket Guide App. A            |
| TLV | Long-term value: 0.025* mg/m <sup>3</sup><br>*respirable particulate matter, A2                  |

**14808-60-7 Quartz (SiO<sub>2</sub>)**

|     |                                                                                                    |
|-----|----------------------------------------------------------------------------------------------------|
| PEL | Long-term value: 0.05* mg/m <sup>3</sup><br>*resp. dust; 30mg/m <sup>3</sup> /%SiO <sub>2</sub> +2 |
| REL | Long-term value: 0.05* mg/m <sup>3</sup><br>*respirable dust; See Pocket Guide App. A              |
| TLV | Long-term value: 0.025* mg/m <sup>3</sup><br>*respirable particulate matter, A2                    |

- **Regulatory information**

PEL: Guide to Occupational Exposure Values (OSHA PELs)

TLV: Guide to Occupational Exposure Values (TLV)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other

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engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

- **Breathing equipment:**



Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Wear safety glasses with side shields (or goggles).

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Physical state**

Solid

- **Color:**

Grey

- **Odor:**

uncharacteristic

- **Odor threshold:**

Not determined

- **Melting point/Melting range:**

Undetermined

- **Boiling point/Boiling range:**

2,230 °C (3630 °F)

- **Flammability:**

Not determined

- **Explosion limits:**

- **Lower:**

Not determined

- **Upper:**

Not determined

- **Flash point:**

Not applicable

- **Decomposition temperature:**

Not determined

- **pH-value:**

Not applicable

- **Viscosity:**

- **Kinematic:**

Not applicable

- **Dynamic:**

Not applicable

- **Solubility in / Miscibility with**

- **Water:**

Insoluble.

- **Partition coefficient (n-octanol/water):**

Not determined

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|                                                                                        |                                               |
|----------------------------------------------------------------------------------------|-----------------------------------------------|
| · <b>Vapor pressure:</b>                                                               | Not applicable                                |
| · <b>Vapor pressure:</b>                                                               |                                               |
| · <b>Density:</b>                                                                      | Not determined                                |
| · <b>Relative density</b>                                                              | Not determined                                |
| · <b>Vapor density</b>                                                                 | Not applicable                                |
| · <b>Particle characteristics</b>                                                      | Not determined                                |
| · <b>Other information</b>                                                             |                                               |
| · <b>Appearance:</b>                                                                   |                                               |
| · <b>Form:</b>                                                                         | Solid in various forms                        |
| · <b>Important information on protection of health and environment, and on safety.</b> |                                               |
| · <b>Ignition temperature:</b>                                                         | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                                                          | Product does not present an explosion hazard. |
| · <b>Solvent content:</b>                                                              |                                               |
| · <b>VOC content:</b>                                                                  | 0.00 %                                        |
| · <b>Solids content:</b>                                                               | 100.0 %                                       |
| · <b>Change in condition</b>                                                           |                                               |
| · <b>Evaporation rate</b>                                                              | Not applicable.                               |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Dust may cause temporary mechanical irritation.
- **on the eye:** Dust may cause temporary mechanical irritation.
- **Sensitization:**  
Based on available data, the substance is not expected to cause skin or respiratory sensitization.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - single exposure**  
Based on available data, the classification criteria are not met.
- **Specific target organ toxicity - repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Not Applicable
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Interactive effects** No interactive effects between components are known.

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- **Carcinogenic categories**

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

|            |                            |   |
|------------|----------------------------|---|
| 60676-86-0 | Silica, fused              | 3 |
| 14464-46-1 | CRISTOBALITE               | 1 |
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | 1 |

- **NTP (National Toxicology Program)**

|            |                            |   |
|------------|----------------------------|---|
| 14464-46-1 | CRISTOBALITE               | K |
| 14808-60-7 | Quartz (SiO <sub>2</sub> ) | K |

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Other adverse effects**
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- **DOT, IMDG, IATA** not regulated

- **UN proper shipping name**

- **DOT, IMDG, IATA** not regulated

- **Transport hazard class(es)**

- **DOT, ADN, IMDG, IATA**
- **Class** not regulated

- **Packing group**

- **DOT, IMDG, IATA** not regulated

- **Environmental hazards:**

Not applicable

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

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- |                                       |                |
|---------------------------------------|----------------|
| <b>· Special precautions for user</b> | Not applicable |
| <b>· UN "Model Regulation":</b>       | not regulated  |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

14464-46-1 CRISTOBALITE

14808-60-7 Quartz (SiO<sub>2</sub>)

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value)**

14464-46-1 CRISTOBALITE

A2

14808-60-7 Quartz (SiO<sub>2</sub>)

A2

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14464-46-1 CRISTOBALITE

14808-60-7 Quartz (SiO<sub>2</sub>)

- **GHS label elements** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

According to Chapter 1.5.2 of the UN Globally Harmonized System of classification and labelling of chemicals (GHS), Article 58 (2)(a), and Article 59(2)(b) of (EC) No 1272/2008 (CLP), which amends REACH article 31(1), safety data sheets (SDS) are only required for substances and mixtures that meet the harmonized criteria for physical, health or environmental hazards.

A Shaped Refractory Material is usually defined as an article in Chemical Regulations, therefore this

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*Safety Data Sheet is not a legal requirement.*

*This item is not Classified as hazardous. However, individual customer processes (such as grinding, sawing, or blasting) may result in the formation of dust that may present health hazards. Wear mask, protective gloves/protective clothing/eye protection.*

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide and is not to be considered a warranty or quality specification and does not establish a legally binding contractual relationship. Actual conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. The suggested precautions and recommendations are based on recognized good work practices and experience as of the date of publication. They are not necessarily all-inclusive or fully adequate in every circumstance. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for one's own particular use and to provide appropriate warnings and safe handling procedures to handlers and users. The information provided relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations are offered solely for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted.*

- **Department issuing SDS:** Global Product Stewardship Team

- **Contact:** SDS@thinkHWI.com

- **Version number of previous version:** 1

- **Date of preparation** 05/04/2026

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

VOC: Volatile Organic Compounds (USA, EU)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit