

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 03/22/2022 Supersedes: 08/07/2018 Issue date: 03/22/2022

#### **SECTION 1: Identification**

Identification 1.1.

Product form Mixture Product name Vibrocast 60PC CAS-No. Mixture Product code 0395

Other means of identification Alumina-Silicate Cement Bonded Castable

Recommended use and restrictions on use

Use of the substance/mixture : Refractory : Industrial use Recommended use

**Supplier** 

Resco Products. Inc.

One Robinson Plaza, Suite 300

6600 Steubenville Pike

Pittsburgh, PA 15205 - United States

412-494-4491

SDS@RescoProducts.com - WWW.RescoProducts.com

**Emergency telephone number** 

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

Outside USA & Canada +1 703-741-5970

#### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2B H320 Causes eye irritation

Carcinogenicity Category 1A H350 May cause cancer (Inhalation)

Full text of H statements: see section 16

#### GHS Label elements, including precautionary statements 2.2.

#### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) H315 - Causes skin irritation H320 - Causes eye irritation H350 - May cause cancer (Inhalation)

: P280 - Wear eye protection, Dust respirator, protective gloves. Precautionary statements (GHS US)

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P260 - Do not breathe dust.

#### Other hazards which do not result in classification

No additional information available

#### 2.4. **Unknown acute toxicity (GHS US)**

Not applicable

# **SECTION 3: Composition/Information on ingredients**

Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	GHS US classification
aluminium oxide, non-fibrous	(CAS-No.) 1344-28-1	5 – 10	Not classified
Calcium Aluminate Cement	(CAS-No.) 65997-16-2	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
quartz	(CAS-No.) 14808-60-7	1 – 5	Carc. 1A, H350
cristobalite	(CAS-No.) 14464-46-1	0.1 – 0.5	Carc. 1A, H350

Full text of hazard classes and H-statements : see section 16

#### **SECTION 4: First-aid measures**

4.1. **Description of first aid measures** 

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical First-aid measures general advice (show the label where possible).

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First-aid measures after inhalation Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Wash with plenty of soap and water. Wash contaminated clothing before reuse.

First-aid measures after eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.

Symptoms/effects after skin contact Causes skin irritation. Symptoms/effects after eye contact Causes eye irritation. Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects after inhalation

#### **SECTION 5: Fire-fighting measures**

#### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media In case of fire, all extinguishing media allowed.

Specific hazards arising from the chemical

Fire hazard : Not flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering

environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

**Emergency procedures** : Do not breathe dust.

For emergency responders 6.1.2.

Protective equipment Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

**Environmental precautions** 

Prevent entry to sewers and public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid raising dust.

Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions Store this product in a dry location where it can be protected from the elements.

Incompatible products Strong bases. Strong acids.

#### **SECTION 8: Exposure controls/personal protection**

#### **Control parameters**

ACGIH TWA (mg/m3)

Vibrocast 60PC (Mixture)			
No additional information available			
Calcium Aluminate Cement (65997-16-2)	Calcium Aluminate Cement (65997-16-2)		
No additional information available			
cristobalite (14464-46-1)	cristobalite (14464-46-1)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH TWA (mg/m³)	0.025 mg/m³ respirable dust		
USA - OSHA - Occupational Exposure Limits			
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust		
aluminium oxide, non-fibrous (1344-28-1)			
USA - ACGIH - Occupational Exposure Limits			

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1 mg/m3 respirable dust

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quartz (14808-60-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)	
USA - OSHA - Occupational Exposure Limits		
Local name	Silica, crystalline quartz, respirable dust	
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	
Remark (OSHA)	(3) See Table Z-3.	

#### **Appropriate engineering controls**

: Provide adequate ventilation to minimize dust concentrations. Appropriate engineering controls

#### Individual protection measures/Personal protective equipment 8.3.

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear appropriate mask

#### Other information:

Do not eat, drink or smoke during use.

### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

Physical state Solid

Appearance Granular mixture. Color Light gray Odor earthy Odor threshold : Not applicable рΗ No data available : > 3000 °F Melting point

Freezing point : Not applicable Boiling point : Not applicable Critical temperature : Not applicable Not applicable Flash point Relative evaporation rate (butyl acetate=1) : Not applicable Relative evaporation rate (ether=1) Not applicable Non flammable. Flammability (solid, gas) : No data available Vapor pressure : Not Applicable Vapor pressure at 50 °C Relative vapor density at 20 °C No data available

Relative density : ≈ 2.6

Solubility Slightly soluble. in water.

Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosion limits** Not applicable : No data available Explosive properties : No data available Oxidizing properties Other information

#### No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Hydraulic setting.

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Vibrocast 60PC (Mixture)		
Bioaccumulative potential	Not established.	
cristobalite (14464-46-1)		
Bioaccumulative potential	No data available.	
aluminium oxide, non-fibrous (1344-28-1)		
Bioaccumulative potential	No data available.	
quartz (14808-60-7)		
Bioaccumulative potential	No data available.	

#### 12.4. **Mobility in soil**

cristobalite (14464-46-1)		
Ecology - soil	No data available.	
aluminium oxide, non-fibrous (1344-28-1)		
Surface tension	No data available in the literature	
Ecology - soil	No data available.	

#### Other adverse effects

Effect on the global warming None known

# **SECTION 13: Disposal considerations**

#### **Disposal methods** 13.1. Ecology - waste materials

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

: Avoid release to the environment.

### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated

**Transportation of Dangerous Goods** 

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Vibrocast 60PC (Mixture)

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### aluminium oxide, non-fibrous (1344-28-1)

Not subject to reporting requirements of the United States SARA Section 313

Note

Note: The section 313 chemical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxide contained in this product is non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise use of aluminum oxide in the fibrous form triggers reporting.

### 15.2. International regulations

#### **CANADA**

#### Calcium Aluminate Cement (65997-16-2)

Listed on the Canadian DSL (Domestic Substances List)

#### cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

#### aluminium oxide, non-fibrous (1344-28-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

#### quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

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Vibrocast 60PC (Mixture)	
U.S California - Proposition 65 - Other	This product contains crystalline silica, a chemical known to the state of California to
information	cause cancer. For more information go to WWW.P65Warnings.ca.gov

cristobalite (14464-46-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

quartz (14808-60-7)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

Component	State or local regulations
Cristobalite (14464-46-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
aluminium oxide, non-fibrous (1344-28-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List

### **SECTION 16: Other information**

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Revision date : 03/22/2022

Other information : Report language name. English. In the event of any conflict between English and other

language versions, the English version shall prevail.

#### Full text of H-phrases:

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H315	Causes skin irritation
H320	Causes eye irritation
H350	May cause cancer

SDS US (GHS HazCom 2012)

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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