

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/15/2015 Revision date: 5/2/2024 Supersedes: 5/19/2021 Version: 3.0

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

#### 1.1. Identification

Product form : Mixture
Product name : Vibrocast 56SC
CAS-No. : Mixture
Product code : 0389

Other means of identification : Alumina-Silicate Cement Bonded Castable

#### 1.2. Recommended use and restrictions on use

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

#### 1.3. 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

#### 1.4. 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**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2B

Carcinogenicity, Category 1A

H315

Causes skin irritation.

Causes eye irritation

Causes eye irritation

May cause cancer (Inhalation).

Full text of H-statements: see section 16

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

#### **GHS US labelling**

Hazard pictograms (GHS US)





Signal word (GHS US) :

Hazard statements (GHS US) : H315 - Causes skin irritation. H320 - Causes eye irritation

H350 - May cause cancer (Inhalation).

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

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.

#### 2.3. 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**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

ole mixtures			
Name	Product identifier	%	GHS-US classification
silicon carbide	CAS-No.: 409-21-2	50 – 75	Carc. 1B, H350
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	1 – 5	Carc. 1A, H350

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

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

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

(show the label where possible).

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

First-aid measures after skin contact : Gently wash with plenty of soap and water.

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.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects after inhalation : 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.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

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

#### 5.1. 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.

#### 5.2. 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 the

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

Protective equipment : Safety glasses. [In case of inadequate ventilation] wear respiratory protection. Gloves.

Emergency procedures : Do not breathe dust. Avoid contact with skin and eyes.

Measures in case of dust release : Ventilate area.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

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

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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

#### 7.1. 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.

#### 7.2. 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**

#### 8.1. Control parameters

#### Vibrocast 56SC (Mixture)

No additional information available

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Calcium Aluminate Cement (65997-16-2)	
No additional information available	
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	0.05 mg/m³ respirable dust
silicon carbide (409-21-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	3 mg/m³ (Silicon carbide, nonfibrous; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica.
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	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 [1]	0.05 mg/m³ respirable dust
Remark (OSHA)	(3) See Table Z-3.
8.2. Appropriate engineering controls	
Appropriate engineering controls :	Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Personal r	protective equipment

### 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**

#### 9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Granular mixture.

Colour Grey Odour earthy

Odour threshold No data available

≈ 10.5 pH solution concentration 10 % > 2000 °F Melting point

Freezing point No data available Boiling point No data available Flash point No data available Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) Not flammable. Vapour pressure No data available Relative vapour density at 20°C No data available

Relative density ≈ 1.7 Solubility Slightly soluble. Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity, kinematic Not Applicable No data available Viscosity, dynamic

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Explosive limits : No data available Explosive properties : No data available Oxidising properties : No data available

#### 9.2. Other information

No additional information available

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

#### 10.1. Reactivity

Hydraulic setting.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Avoid dust formation.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

No additional information available

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

silicon carb	ide (409	9-21-2)
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> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)

Skin corrosion/irritation : Causes skin irritation.

pH: ≈ 10.5

pH ≤ 13

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

pH 6-7

#### silicon carbide (409-21-2)

pH Not applicable (non-soluble in water), CIPAC MT 75: Determination of pH

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

pH 6-7

Serious eye damage/irritation : Causes eye irritation.

pH: ≈ 10.5

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

pH ≤ 13

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

pH 6-7

#### silicon carbide (409-21-2)

pH Not applicable (non-soluble in water), CIPAC MT 75: Determination of pH

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quartz (14808-60-7)	
рН	6 – 7
Respiratory or skin sensitisation Germ cell mutagenicity	: Not classified : Not classified
Carcinogenicity	: May cause cancer (Inhalation).
silicon carbide (409-21-2)	
IARC group	2A - Probably carcinogenic to humans
quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure STOT-repeated exposure	: Not classified : Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not Applicable
silicon carbide (409-21-2)	
Viscosity, kinematic	Not applicable (solid)
Potential adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms Symptoms/effects after inhalation	: 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.
SECTION 12: Ecological information	
12.1. Toxicity	
silicon carbide (409-21-2)	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 48 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
ErC50 algae  12.2. Persistence and degradability	
ErC50 algae  12.2. Persistence and degradability  Vibrocast 56SC (Mixture)	system, Fresh water, Experimental value, GLP)
12.2. Persistence and degradability  Vibrocast 56SC (Mixture)  Persistence and degradability	
ErC50 algae  12.2. Persistence and degradability  Vibrocast 56SC (Mixture)  Persistence and degradability  cristobalite (14464-46-1)	system, Fresh water, Experimental value, GLP)  Not established.
ErC50 algae  12.2. Persistence and degradability  Vibrocast 56SC (Mixture)  Persistence and degradability  cristobalite (14464-46-1)  Persistence and degradability	Not established.   Mineral. Not applicable.
ErC50 algae  12.2. Persistence and degradability  Vibrocast 56SC (Mixture)  Persistence and degradability  cristobalite (14464-46-1)  Persistence and degradability  Chemical oxygen demand (COD)	Not established.   Mineral. Not applicable.   Not applicable
ErC50 algae  12.2. Persistence and degradability  Vibrocast 56SC (Mixture)  Persistence and degradability  cristobalite (14464-46-1)  Persistence and degradability  Chemical oxygen demand (COD)  ThOD	Not established.   Mineral. Not applicable.
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ErC50 algae  12.2. Persistence and degradability  Vibrocast 56SC (Mixture) Persistence and degradability  cristobalite (14464-46-1) Persistence and degradability Chemical oxygen demand (COD) ThOD BOD (% of ThOD)  silicon carbide (409-21-2) Persistence and degradability Chemical oxygen demand (COD) ThOD quartz (14808-60-7)	Not established.
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12.4. Mobility in soil	
cristobalite (14464-46-1)	
Ecology - soil	No data available.
silicon carbide (409-21-2)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for adsorption in soil.
12.5. Other adverse effects	

Effect on global warming : None known
Other information : No other effects known.

#### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

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

In accordance with DOT / TDG / IMDG / IATA

**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

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

#### 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)

#### silicon carbide (409-21-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

**National regulations** 

#### silicon carbide (409-21-2)

Listed on IARC (International Agency for Research on Cancer)

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

Listed on IARC (International Agency for Research on Cancer)

#### 15.3. US State regulations

### Vibrocast 56SC (Mixture)

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

### cristobalite (14464-46-1)

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

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quartz (14808-60-7)					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)	dose level (MADL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity	Reproductive Toxicity	, , ,	` ,
		- Female	- Male		
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
silicon carbide (409-21-2)	U.S New Jersey - Right to Know Hazardous Substance List
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List

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

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

language versions, the English version shall prevail.

Full text of H-statements		
H315	Causes skin irritation.	
H320	Causes eye irritation	
H350	May cause cancer.	

Safety Data Sheet (SDS), USA

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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