

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 03/22/2022 Revision date: 03/22/2022 Supersedes: 11/29/2018

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Vibrocast 75
CAS-No. : Mixture
Product code : 0434

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

H315 Causes skin irritation
H320 Causes eye irritation

Carcinogenicity Category 1A H350 May cause cancer (Inhalation)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

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)

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

4	AL MIXED				
	Name	Product identifier	%	GHS US classification	
	aluminium oxide, non-fibrous	(CAS-No.) 1344-28-1	50 – 75	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

4.4	B		4.4
4.1.	Descriptio	n of first i	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.

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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) 4.2.

symptoms

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

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

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

No additional information available

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

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

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

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

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

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. 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.

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

Control parameters 8.1.

Vibrocast 75 (Mixture)	brocast 75 (Mixture)		
No additional information available			
Calcium Aluminate Cement (65997-16-2)			
No additional information available			
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			
ACGIH TWA (mg/m³)	1 mg/m³ respirable dust		
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)

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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.

8.2. Appropriate engineering controls

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

No data available

3.3. Individual protection measures/Personal 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 o	n basic physical and	chemical properties

Physical state : Solid

Appearance : Granular mixture.

Color : Gray
Odor : earthy

Odor threshold : Not applicable pH : No data available

Melting point : > 3000 °F
Freezing point : Not applicable
Boiling point : Not applicable
Critical temperature : Not applicable

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

Relative density : ≈ 2.6

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

9.2. Other information

No additional information available

Relative vapor density at 20 °C

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.

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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			
aluminium oxide, non-fibrous (1344-28-1)				
LD50 oral rat	> 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female,			
	Experimental value, Oral, 14 day(s))			
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value,			
	Inhalation (aerosol), 14 day(s))			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eye damage/irritation	: Causes eye irritation.			
Respiratory or skin sensitization	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: May cause cancer (Inhalation).			
quartz (14808-60-7)				
IARC group	1 - Carcinogenic to humans			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
STOT-repeated exposure	: Not classified			
Aspiration hazard Viscosity, kinematic	: Not classified : No data available			
Potential Adverse human health effects and	: No data available: : Based on available data, the classification criteria are not met.			
symptoms	. Dasca on available data, the diassindation entend are not met.			
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				
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12.1. Toxicity				
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12.1. Toxicity aluminium oxide, non-fibrous (1344-28-1) LC50 fish 1	> 100 mg/l (96 h, Salmo trutta, Literature study)			
12.1. Toxicity aluminium oxide, non-fibrous (1344-28-1)	> 100 mg/l (96 h, Salmo trutta, Literature study) > 100 mg/l (48 h, Daphnia magna, Literature study)			
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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.	

12.5. Other adverse effects

Effect on the global warming None known

SECTION 13: Disposal considerations

Disposal methods 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 75 (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)

15.3. US State regulations

	Vibrocast 75 (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	

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cristobalite (1446	4-46-1)				
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 Cristobalite (14464-46-1)		State or local regulations	S		
		U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know			

SECTION 16: Other information

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

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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.

Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

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

Full text of H-phrases:

Quartz (14808-60-7)

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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