

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Supersedes: 04/24/2013 Date of issue: 03/15/2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form Mixture Product name **HM 30 LI** CAS No Mixture Product code 3031

Other means of identification Alumina-Silicate Cement Bonded Castable

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Refractory

1.3. Details of the supplier of the safety data sheet

Resco Products, Inc.

One Robinson Plaza, Suite 300 6600 Steubenville Pike

Pittsburgh, PA 15205 - United States

412-494-4491

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: Hazards identification

Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315 Eye Irrit. 2B H320 Carc. 1A H350

Full text of H-phrases: see section 16

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Danger

H315 - Causes skin irritation Hazard statements (GHS-US) 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

No additional information available

Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

Substance 3.1.

Not applicable

3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Calcium Aluminate Cement	(CAS No) 65997-16-2	10 - 20	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
cristobalite	(CAS No) 14464-46-1	10 - 20	Carc. 1A, H350
quartz	(CAS No) 14808-60-7	1 - 5	Carc. 1A, H350

Full text of H-phrases: see section 16

SECTION 4: First aid measures

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 victim 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.

4.2. Most important symptoms and effects, both acute and delayed

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

through inhalation.

Symptoms/injuries after skin contact : Causes skin irritation. Symptoms/injuries after eye contact : Causes eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.
Reactivity : Hydraulic setting.

5.3. Advice for firefighters

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.

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. Minimize generation of dust.

6.4. Reference to other sections

See Heading 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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HM 30 LI (Mixture)			
ACGIH	Not applicable		
OSHA	Not applicable		
Calcium Aluminate Cement (65997-16-2)			
ACGIH	Not applicable		
OSHA	Not applicable		
quartz (14808-60-7)			
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³	
OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m ³	
cristobalite (14464-46-1)			
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ respirable dust	
OSHA	OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	

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8.2. Exposure controls

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 : Off-white
Odour
Odour threshold : Not applicable
pH : No data available
Relative evaporation rate (butylacetate=1) : Not applicable

Relative evaporation rate (ether=1) Not applicable > 3000 °F Melting point Freezing point : Not applicable Not applicable Boiling point Flash point Not applicable Critical temperature Not applicable Auto-ignition temperature Not applicable Decomposition temperature No data available

Flammability (solid, gas) : None

Vapour pressure : Not Applicable
Vapour pressure at 50 °C : Not Applicable
Critical pressure : Not applicable
Relative vapour density at 20 °C : No data available

Relative density : ≈ 2.1

Solubility Water: Slight No data available Log Pow No data available Log Kow Viscosity, kinematic Not Applicable Not Applicable Viscosity, dynamic Explosive properties No data available No data available Oxidising properties : Not applicable **Explosive limits**

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Hydraulic setting.

10.2. Chemical stability

Not established.

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 : Not classified
Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified

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Carcinogenicity	: May cause cancer (Inhalation).		
quartz (14808-60-7)			
IARC group	1 - Carcinogenic to humans		
cristobalite (14464-46-1)			
IARC group	1 - Carcinogenic to humans		
Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential adverse human health effects and symptoms Symptoms/injuries after inhalation	 Not classified Not classified Not classified Not classified Based on available data, the classification criteria are not met. May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure 		
Symptoms/injuries after skin contact Symptoms/injuries after eye contact SECTION 12: Ecological information	through inhalation. : Causes skin irritation. : Causes eye irritation.		

12.1. Toxicity

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No additional information available

12.2. Persistence and degradability

Persistence and degradability	Not established.	
quartz (14808-60-7)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
cristobalite (14464-46-1)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

12.3. Bioaccumulative potential

Bioaccumulative potential	Not established.	
quartz (14808-60-7)		
Log Pow	Not applicable	
Bioaccumulative potential	No bioaccumulation data available.	
cristobalite (14464-46-1)		
Log Pow	Not applicable	
Bioaccumulative potential	No bioaccumulation data available.	

12.4. Mobility in soil

HM 30 LI (Mixture)

No additional information available

12.5. Other adverse effects

Effect on ozone layer

Effect on the global warming : No known ecological damage caused by this product.

Effect on the global warming : None known

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste 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 Not regulated for transport Additional information

Other information : No supplementary information available.

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ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Calcium Aluminate Cement (65997-16-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

cristobalite (14464-46-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

HM 30 LI (Mixture)

WHMIS Classification D2A

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

15.2.2. National regulations

quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

HM 30 LI(Mixture)

quartz (14808-60-7)

U.S California - Proposition 65 - Other information	This product contains crystalline silica, a chemical known to the state of California to cause
	cancer.

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 significance risk level (NSRL)
Yes	No	No	No	

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 -	U.S California - Proposition 65 - Reproductive Toxicity -	No significance risk level (NSRL)
and age		Female	Male	
Yes	No	No	No	

quartz (14808-60-7)

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

cristobalite (14464-46-1)

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

SECTION 16: Other information

Other information : None.

Full text of H-phrases:

Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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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