



# FurnaCubed 40

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 5/11/2015 Revision date: 8/27/2025 Supersedes: 9/21/2022

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : FurnaCubed 40  
CAS-No. : Mixture  
Product code : 0874

#### 1.2. Other means of identification

Other means of identification : Alumina-Silicate Cement Bonded Castable

#### 1.3. Recommended use of the chemical and restrictions on use

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

#### 1.4. Supplier's details

RHI Magnesita  
One Robinson Plaza, Suite 300  
6600 Steubenville Pike  
Pittsburgh, PA, 15205  
United States  
T 412-494-4491

[Resco\\_SDS.TDS@rhimagnesita.com](mailto:Resco_SDS.TDS@rhimagnesita.com) - [WWW.RescoProducts.com](http://WWW.RescoProducts.com)

#### 1.5. Emergency phone number

Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300  
Outside USA & Canada +1 703-741-5970

### SECTION 2 Hazard Identification

#### 2.1. 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

#### 2.2. Label elements

##### 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 or attention.  
P337+P313 - If eye irritation persists: Get medical advice or attention.  
P260 - Do not breathe dust.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

#### 2.5. Unknown acute toxicity

No additional information available

### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
cristobalite	CAS-No.: 14464-46-1	10 – 30	Carc. 1A, H350

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Name	Product identifier	%	GHS US classification
Calcium Aluminate Cement	CAS-No.: 65997-16-2	10 – 30	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
calcium fluoride	CAS-No.: 7789-75-5	1 – 5	Not classified

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

### SECTION 4 First aid measures

#### 4.1. Description of necessary 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/effects, acute and delayed

Potential Adverse human health effects and symptoms	: Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.

#### 4.3. Indication of immediate medical attention and special treatment needed, 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.
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#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance.
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

##### For non-emergency personnel

Emergency procedures	: Do not breathe dust. Avoid contact with skin and eyes.
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##### For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area. On land, sweep or shovel into suitable containers.
Environmental precautions	: Prevent entry to sewers and public waters.

#### 6.2. Methods and materials for containment and cleaning up

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

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

##### USA - ACGIH - Occupational Exposure Limits

ACGIH® TLV® TWA	0.025 mg/m³ respirable dust
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### cristobalite (14464-46-1)

#### USA - OSHA - Occupational Exposure Limits

OSHA PEL TWA 0.05 mg/m<sup>3</sup> respirable dust

### calcium fluoride (7789-75-5)

#### USA - ACGIH - Occupational Exposure Limits

ACGIH® TLV® TWA 2.5 mg/m<sup>3</sup>

### 8.2. Appropriate engineering controls

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

### 8.3. Individual protection measures, such as 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. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Granular mixture.
Color	: dark gray
Odor	: earthy
Odor threshold	: No data available
pH	: ≈ 10.5
pH solution concentration	: 10 %
Melting point	: > 2000 °F
Freezing point	: No data available
Boiling point	: No data available
Critical temperature	: Not applicable
Flash point	: No data available
Flammability (solid, gas)	: Not flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
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	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

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.

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### 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

#### calcium fluoride (7789-75-5)

LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (EPA OPP 81-2, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 5.07 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
Skin corrosion/irritation	: Causes skin irritation. pH: ≈ 10.5

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

pH	≤ 13
<b>cristobalite (14464-46-1)</b>	
pH	6 – 7
<b>calcium fluoride (7789-75-5)</b>	
pH	No data available in the literature
Serious eye damage/irritation	: Causes eye irritation. pH: ≈ 10.5

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

pH	≤ 13
<b>cristobalite (14464-46-1)</b>	
pH	6 – 7
<b>calcium fluoride (7789-75-5)</b>	
pH	No data available in the literature
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer (Inhalation).
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

#### calcium fluoride (7789-75-5)

Viscosity, kinematic	Not applicable (solid)
Potential Adverse human health effects and symptoms	: Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.

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### SECTION 12 Ecological information

#### 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### calcium fluoride (7789-75-5)

LC50 - Fish [1]	164.5 ppm (EPA 600/3-75/009, 96 h, Salmo trutta, Static system, Fresh water, Experimental value, Fluorine ion)
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#### 12.2. Persistence and degradability

##### FurnaCubed 40 (Mixture)

Persistence and degradability	Not established.
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##### Calcium Aluminate Cement (65997-16-2)

Persistence and degradability	Rapidly degradable
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##### crystalite (14464-46-1)

Persistence and degradability	Mineral, Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

#### calcium fluoride (7789-75-5)

Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

#### 12.3. Bioaccumulative potential

##### FurnaCubed 40 (Mixture)

Bioaccumulative potential	Not established.
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##### crystalite (14464-46-1)

Bioaccumulative potential	No data available.
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#### calcium fluoride (7789-75-5)

BCF - Fish [1]	0 – 6.4 l/kg (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Fresh water, Experimental value, GLP)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

#### 12.4. Mobility in soil

##### crystalite (14464-46-1)

Ecology - soil	No data available.
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#### calcium fluoride (7789-75-5)

Surface tension	No data available in the literature
Ecology - soil	No (test) data on mobility of the substance available.

#### 12.5. Other adverse effects

Ozone	: Not classified
Effect on the global warming	: None known
Fluorinated greenhouse gases	: No
Other information	: No other effects known.

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### SECTION 13 Disposal considerations

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

### 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. 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)

**calcium fluoride (7789-75-5)**

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations**

No additional information available

**National regulations**

No additional information available

#### 15.3. State regulations

**FurnaCubed 40 (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 <a href="http://WWW.P65Warnings.ca.gov">WWW.P65Warnings.ca.gov</a>
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**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		

**Component**

cristobalite(14464-46-1)

**State or local regulations**

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

### SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 8/27/2025

Issue date : 5/11/2015

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 hazard classes and 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, RHI Magnesita 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.