

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 5/1/2015 Revision date: 8/18/2025 Supersedes: 9/9/2022

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : EZ Cast 34-10
CAS-No. : Mixture
Product code : 3725

1.2. Other means of identification

Other means of identification : Alumina 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 - 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
aluminium oxide, non-fibrous	CAS-No.: 1344-28-1	≥ 80	Not classified

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Name	Product identifier	%	GHS US classification
chromium(III) oxide	CAS-No.: 1308-38-9	10 – 30	Not classified
Calcium Aluminate Cement	CAS-No.: 65997-16-2	1 – 5	Skin Irrit. 2, H315
			Eye Irrit. 2B, H320
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 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. Get medical advice/attention if you feel unwell. Do not induce vomiting.

4.2. Most important symptoms/effects, acute and delayed

Potential Adverse human health effects and

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

symptoms

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

cancer by inhalation.
Causes skin irritation.

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.

Hazardous decomposition products in case of fire : Fire conditions may produce small amounts of hexavalent chromium and other oxidation

products.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. Prevent entry to sewers and

public waters.

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

Protective equipment : Avoid creating or spreading dust.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Environmental precautions : Prevent entry to sewers and public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : On land, sweep or shovel into suitable containers.

For further information refer to section 8: "Exposure controls/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 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

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aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	1 mg/m³ respirable dust
chromium(III) oxide (1308-38-9)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	0.003 mg/m³ (Inhalable fraction)
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH® TLV® TWA	0.025 mg/m³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA	0.05 mg/m³ respirable dust
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 pr	otection:
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Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Solid

Appearance : Granular mixture.
Color : Green
Odor : odorless
Odor threshold : No data available

рΗ ≈ 10.5 pH solution concentration 10 % Melting point > 3000 °F Freezing point No data available Boiling point No data available Flash point No data available Flammability (solid, gas) Not flammable. No data available Vapor pressure

Relative vapor density at 20°C : No data available Relative density : ≈ 3.1

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.

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10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Chromic oxide may react with alkali at high temperatures under oxidizing conditions.

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

react textony (initial action)	. Hot slassing	
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))	
chromium(III) oxide (1308-38-9)		
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LC50 Inhalation - Rat	> 5.41 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
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)

Calcium Aluminate Cement (65997-16-2)

oH ≤ 13

chromium(III) oxide (1308-38-9)

oH No data available in the literature

cristobalite (14464-46-1)

pH 6-7

Serious eye damage/irritation : Causes eye irritation.

pH: ≈ 10.5

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

pH 9 – 10.5 (aqueous suspension, 33 %)

Calcium Aluminate Cement (65997-16-2)

pH ≤ 13

chromium(III) oxide (1308-38-9)

pH No data available in the literature

cristobalite (14464-46-1)

pH 6-7

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

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	Not classified Not classified		
aluminium oxide, non-fibrous (1344-28-1)			
Viscosity, kinematic	Not applicable (solid)		
chromium(III) oxide (1308-38-9)			
Viscosity, kinematic	Not applicable (solid)		
Potential Adverse human health effects and : symptoms	Danger of serious damage to health by prolonged exposure through inhalation.		
	Danger of serious damage to health by prolonged exposure through inhalation. May cause		
	cancer by inhalation. Causes skin irritation.		
	Causes eye irritation.		
SECTION 12 Ecological information			
12.1. Ecotoxicity	Not classified		
(acute)			
Hazardous to the aquatic environment, long–term : (chronic)	Not classified		
aluminium oxide, non-fibrous (1344-28-1)			
LC50 - Fish [1]	> 100 mg/l (96 h, Salmo trutta, Literature study)		
EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna, Literature study)		
chromium(III) oxide (1308-38-9)			
LC50 - Fish [1]	> 10000 mg/l (ISO 7346-1, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)		
EC50 - Crustacea [1]	14 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)		
12.2. Persistence and degradability			
EZ Cast 34-10 (Mixture)			
Persistence and degradability	Rapidly degradable		
aluminium oxide, non-fibrous (1344-28-1)			
Persistence and degradability	Not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
Calcium Aluminate Cement (65997-16-2)			
Persistence and degradability	Rapidly degradable		
chromium(III) oxide (1308-38-9)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
cristobalite (14464-46-1)			
Persistence and degradability	Mineral, Not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
BOD (% of ThOD)	Not applicable		

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12.3. Bioaccumulative potential	
aluminium oxide, non-fibrous (1344-28-1)	
Bioaccumulative potential	No data available.
chromium(III) oxide (1308-38-9)	
Bioaccumulative potential	Not bioaccumulative.
cristobalite (14464-46-1)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
aluminium oxide, non-fibrous (1344-28-1)	
Surface tension	Not applicable (water solubility < 1 mg/l)
Ecology - soil	No data available.
chromium(III) oxide (1308-38-9)	
Surface tension	No data available in the literature
Ecology - soil	Adsorbs into the soil.
cristobalite (14464-46-1)	
Ecology - soil	No data available.
12.5. Other adverse effects	
Ozone : Fluorinated greenhouse gases : SECTION 13 Disposal considerations	Not classified No

SECTION 13 Disposal considerations

Product/Packaging disposal recommendations

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

Additional information

: Chromite (Cr*+3) may in normal use be converted chemically to a chromate (Cr*+6). Hexavalent chromium (Cr*+6) is considered a hazardous material.

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

EZ Cast 34-10 (Mixture)

Note This information must be included in all SDS's that are copied and distributed for this material.

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: 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.

chromium(III) oxide (1308-38-9)

Subject to reporting requirements of United States SARA Section 313

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15.2. International regulations

CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

Calcium Aluminate Cement (65997-16-2)

Listed on the Canadian DSL (Domestic Substances List)

chromium(III) oxide (1308-38-9)

Listed on the Canadian DSL (Domestic Substances List)

cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. State regulations

EZ Cast 34-10 (Mixture)

U.S California - Proposition 65	
Other information	

This product contains chromite (Cr*+3) which may in normal use, be converted chemically to a chromate (Cr*+6) hexavalent chrome, a chemical known to the State of California to cause cancer. This product contains crystalline silica, a chemical known to the state of California to cause cancer.

cristobalite (14464-46-1)

CHISCODUILC (17707-70-	1)				
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
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
chromium(III) oxide(1308-38-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List
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

SECTION 16 Other information

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

Revision date : 8/18/2025 Issue date : 5/1/2015

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.

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