

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 4/24/2023 Revision date: 4/24/2023 Supersedes: 10/29/2020

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Kricon 34-10
CAS-No. : Mixture
Product code : 7328

Other means of identification : Alumina 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 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)

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	75 – 95	Not classified
chromium(III) oxide	CAS-No.: 1308-38-9	10 – 20	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

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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. Get medical advice/attention if you feel unwell. Do not induce vomiting.

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

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 : Non-flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : No specific fire-fighting instructions required.

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 : Avoid creating or spreading dust.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

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

6.4. Reference to other sections

No additional information available

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 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

Kricon 34-10 (Mixture)

No additional information available

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

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 1 mg/m³ respirable dust

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Calcium Aluminate Cement (65997-16-2)		
No additional information available		
chromium(III) oxide (1308-38-9)		
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	

8.2. Appropriate engineering controls

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

8.3. 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Granular mixture.
Color : Green
Odor : odorless
Odor threshold : No data available
pH : No data available

Melting point > 2500 °F Freezing point No data available Boiling point No data available Flash point No data available Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Not flammable. Vapor pressure No data available Relative vapor density at 20°C No data available

Relative density : ≈ 3.1

Slightly soluble. Solubility Partition coefficient n-octanol/water (Log Pow) No data available No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosion limits** No data available Explosive properties No data available Oxidizing 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.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

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10.5. Incompatible materials	
Strong acids. Chromic oxide may react with alkali at h	igh temperatures under oxidizing conditions
	ightemperatures under oxidizing conditions.
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified
aluminium oxide, non-fibrous (1344-28-1)	. IVOLOGOSTIICO
LD50 oral rat	> 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female,
LD30 oral rat	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 (aerosol), 14 day(s))
Skin corrosion/irritation	: Causes skin irritation.
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Calcium Aluminate Cement (65997-16-2)	
pH	≤ 13
chromium/III) oxido (1309-39-0)	
chromium(III) oxide (1308-38-9)	
pH	No data available in the literature
cristobalite (14464-46-1)	
pH	6 – 7
pri	0-1
Serious eve damage/irritation	· Causes eve irritation
Serious eye damage/irritation	: Causes eye irritation.
aluminium oxide, non-fibrous (1344-28-1)	
aluminium oxide, non-fibrous (1344-28-1) pH	: Causes eye irritation. 9 – 10.5 (aqueous suspension, 33 %)
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2)	9 – 10.5 (aqueous suspension, 33 %)
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH	
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9)	9 – 10.5 (aqueous suspension, 33 %) ≤ 13
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH	9 – 10.5 (aqueous suspension, 33 %)
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1)	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 : Not classified
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 : Not classified : Not classified
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 Not classified Not classified May cause cancer (Inhalation).
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 Not classified Not classified May cause cancer (Inhalation). Not classified
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 Not classified Not classified May cause cancer (Inhalation). Not classified Not classified Not classified
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aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 Not classified Not classified May cause cancer (Inhalation). Not classified
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aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic aluminium oxide, non-fibrous (1344-28-1) Viscosity, kinematic chromium(III) oxide (1308-38-9) Viscosity, kinematic Symptoms/effects after inhalation	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic aluminium oxide, non-fibrous (1344-28-1) Viscosity, kinematic chromium(III) oxide (1308-38-9) Viscosity, kinematic Symptoms/effects after inhalation	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 Not classified Not dassified Not dassified Not dassified Not data available Not applicable (solid) Not applicable (solid) Not applicable (solid) Causes skin irritation.
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aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic aluminium oxide, non-fibrous (1344-28-1) Viscosity, kinematic chromium(III) oxide (1308-38-9) Viscosity, kinematic Symptoms/effects after inhalation	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 Not classified Not dassified Not dassified Not dassified Not data available Not applicable (solid) Not applicable (solid) Not applicable (solid) Causes skin irritation.
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aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic aluminium oxide, non-fibrous (1344-28-1) Viscosity, kinematic chromium(III) oxide (1308-38-9) Viscosity, kinematic Symptoms/effects after inhalation Symptoms/effects after eye contact Symptoms/effects after eye contact SECTION 12: Ecological information 12.1. Toxicity aluminium oxide, non-fibrous (1344-28-1)	9 – 10.5 (aqueous suspension, 33 %) ≤ 13
aluminium oxide, non-fibrous (1344-28-1) pH Calcium Aluminate Cement (65997-16-2) pH chromium(III) oxide (1308-38-9) pH cristobalite (14464-46-1) pH Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard Viscosity, kinematic aluminium oxide, non-fibrous (1344-28-1) Viscosity, kinematic chromium(III) oxide (1308-38-9) Viscosity, kinematic Symptoms/effects after inhalation Symptoms/effects after eye contact SECTION 12: Ecological information 12.1. Toxicity	9 – 10.5 (aqueous suspension, 33 %) ≤ 13 No data available in the literature 6 – 7 Not classified Not dassified Not dassified Not dassified Not data available Not applicable (solid) Not applicable (solid) Not applicable (solid) Causes skin irritation.

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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)
12.2. Persistence and degradability	
aluminium oxide, non-fibrous (1344-28	-1)
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
chromium(III) oxide (1308-38-9)	
Persistence and degradability	Biodegradability in soil: not applicable. 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
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	No data available in the literature
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	
lo additional information available	

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

Do not discharge into the sewer.

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. US Federal regulations

Kricon 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

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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 Note 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

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. US State regulations

Kricon 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. For more information go to WWW.P65Warnings.ca.gov

cristobalite (14464-46-	1)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	level (NSRL)
Carcinogene Liet	Dovolopmental Toxicity	Reproductive Toxicity	Reproductive Toxicity	

dose level (MADL) Carcinogens List Developmental Toxicity Reproductive Toxicity Reproductive Toxicity - Female - Male No Yes No

Maximum allowable

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

Revision date : 4/24/2023

Report language name. English. In the event of any conflict between English and other language Other information versions, the English version shall prevail

Full text of H-phrases		
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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