

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 4/26/2023 Revision date: 4/26/2023 Supersedes: 10/19/2020

SECTION 1: Identification					
1.1. Identification					
	: Mixture				
Product name	: Kricon 34-5				
CAS-No.	: Mixture				
	: 0959				
	: Alumina Cemen	t Bonded Casta	ble		
1.2. Recommended use and restrictions on u Use of the substance/mixture	: Refractory				
	: Industrial use				
1.3. Supplier					
Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.com</u>	<u>om</u>				
1.4. Emergency telephone number					
Emergency number	: EMERGENCY (Outside USA &			Canada 1-800	-424-9300
SECTION 2: Hazard(s) identification			-741-0970		
2.1. Classification of the substance or mixtu	re				
GHS US classification					
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2B Carcinogenicity Category 1A Full text of H statements : see section 16		H315 H320 H350	Causes skir Causes eye May cause		ion)
2.2. GHS Label elements, including precaution	onary statemen	ts			
GHS US labeling Hazard pictograms (GHS US)					
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	: Danger : H315 - Causes : H320 - Causes : H350 - May cau : P280 - Wear eyu	eye irritation se cancer (Inha e protection, Du	st respirator		
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 cla	ssification				
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
No additional information available					
SECTION 3: Composition/Information or	n ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
Name		Product	dentifier	%	GHS US classification
aluminium oxide, non-fibrous		CAS-No.:		75 – 95	Not classified
chromium(III) oxide		CAS-No.:		5 – 10	Not classified
Calcium Aluminate Cement			65997-16-2	1-5	Skin Irrit. 2, H315
cristobalite		CAS-No.:	4464-46-1	0.1 – 0.5	Eye Irrit. 2B, H320 Carc. 1A, H350

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Full text of hazard classes and H-statements : see se	ection 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 First-aid measures after skin contact	 Allow affected person to breathe fresh air. Allow the victim to rest. 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
First-aid measures after ingestion	and easy to do. Continue rinsing. 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 Symptoms/effects after eye contact	: Causes skin irritation. : Causes eye irritation.
4.3. Immediate medical attention and specia	•
No additional information available	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	umedia
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 chem	ical
Fire hazard	: Non-flammable.
5.3. Special protective equipment and preca	autions for fire-fighters
Firefighting instructions Protection during firefighting	 No specific fire-fighting instructions required. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measur	
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel Protective equipment 6.1.2. For emergency responders	: Avoid creating or spreading dust.
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 a	and cleaning up
For containment Methods for cleaning up	: Collect spillage. : 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
Hygiene measures	 skin and eyes. Do not breathe dust. 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 a	
Storage conditions Incompatible products	 Store this product in a dry location where it can be protected from the elements. Strong bases. Strong acids.
SECTION 8: Exposure controls/persona	
8.1. Control parameters	
Kricon 34-5 (Mixture)	
No additional information available	
aluminium oxide, non-fibrous (1344-28-1)	
USA - ACGIH - Occupational Exposure Limits	1 ma/m3 roopirable dust
ACGIH OEL TWA	1 mg/m ³ 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/m ³ respirable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	0.05 mg/m ³ respirable dust
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations.
8.3. Individual protection measures/Person	nal 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 pro	operties
9.1. Information on basic physical and che	emical properties : Solid
Appearance Color Odor Odor threshold pH Melting point Freezing point Boiling point Flash point Relative evaporation rate (butyl acetate=1) Flammability (solid, gas) Vapor pressure Relative vapor density at 20°C Relative density Solubility Partition coefficient n-octanol/water (Log Pow)	 Granular mixture. Green odorless No data available No data available > 3000 °F No data available
Auto-ignition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties Oxidizing properties 9.2. Other information No additional information available	 No data available

No additional information available

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10.1. Reactivity Hydraulic setting. 10.2. Chemical stability Stable under normal conditions. 10.3. Chemical stability 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 (oral) : Not classified Acute toxicity (inhalation) : Not classified Acute toxicity (inhalation) : Not classified LC50 Inhalation - Rat > 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) LC50 Inhalation - Rat > 5500 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) LC50 Inhalation - Rat > 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s)) Skin corrosion/initiation : Cause skin initiation. Skin co		
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Acute toxiciý (inhalation) : Not classified aluminium oxide, non-fibrous (1344-28-1) > 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)		
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pH ≤ 13 chromium(III) oxide (1308-38-9)	Calcium Aluminate Cement (65997-16-2)	
	· · · · · · · · · · · · · · · · · · ·	≤ 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	0 ,	
STOT-single exposure : Not classified		
STOT-repeated exposure : Not classified	5 1	
Aspiration hazard : Not classified		
Viscosity, kinematic : No data available	Viscosity, kinematic :	No data available
aluminium oxide, non-fibrous (1344-28-1)		
Viscosity, kinematic Not applicable (solid)	Viscosity, kinematic	Not applicable (solid)

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chromium(III) oxide (1308-38-9)		
Viscosity, kinematic		Not applicable (solid)
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		
12.1. Toxicity		
aluminium oxide, non-fibrous (1344-28-1)		
LC50 - Fish [1]	> 1	100 mg/l (96 h, Salmo trutta, Literature study)
EC50 - Crustacea [1]	> 1	100 mg/l (48 h, Daphnia magna, Literature study)
chromium(III) oxide (1308-38-9)		
LC50 - Fish [1]	> 1	10000 mg/l (ISO 7346-1, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
12.2. Persistence and degradability	1	
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		Na data availabla
· · · · · · · · · · · · · · · · · · ·		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		
No additional information available		
SECTION 13: Disposal considerations		
13.1. Disposal methods		
Product/Packaging disposal recommendations Additional information	:	Do not discharge into the sewer. 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		

Not regulated Not regulated

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Transport by sea Not regulated Air transport Not regulated						
SECTION 15: Regula	tory informat	ion				
15.1. US Federal regula	ations					
Kricon 34-5 (Mixture)						
Note			This information must b	be included in all SDS's t	hat are copied and dist	ributed for this material.
All components of this proc (TSCA) inventory	duct are present a	nd listed a	s Active on the United S	tates Environmental Pro	tection Agency Toxic Su	Jbstances Control Act
aluminium oxide, non-	fibrous (1344-2	28-1)				
Not subject to reporting rec			tes SARA Section 313			
Note No col	te: The section 3 [°] ntained in this pro	3 chemica	al list contains "CAS # 13	344-28-1 Aluminum Oxid a section 313 material. rting.		
chromium(III) oxide (13						
Subject to reporting require		States SAF	RA Section 313			
15.2. International regu	lations					
CANADA						
aluminium oxide, non-	fibrous (1344-2	28-1)				
Listed on the Canadian DS	L (Domestic Subs	tances Lis	it)			
Calcium Aluminate Ce Listed on the Canadian DS			t)			
			()			
chromium(III) oxide (13						
Listed on the Canadian DS	L (Domestic Subs	stances Lis	t)			
cristobalite (14464-46-	1)					
Listed on the Canadian DS	L (Domestic Subs	tances Lis	t)			
EU-Regulations	- 1-1-1-					
No additional information av National regulations	allable					
No additional information av	vailable					
15.3. US State regulation	ons					
Kricon 34-5 (Mixture)						
U.S California - Proposition 65 - Other information This product contains chromite (Cr*+3) which may in normal use, be converted chemically to 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				f California to cause		
				-	#	
cristobalite (14464-46- U.S California -			U.S California -	U.S California -	No aignificant risk	Maximum allowable
Proposition 65 -	U.S California - Proposition 65 -		Proposition 65 -	Proposition 65 -	No significant risk level (NSRL)	dose level (MADL)
Carcinogens List	Developmental	Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male		
Yes	No		No	No		
Component		State or	local regulations			
aluminium oxide, non-fibro	us (1344-28-1)		lassachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List;			
	. ,	U.S Pe	ennsylvania - RTK (Right to Know) List			
chromium(III) oxide (1308- Cristobalite (14464-46-1)	38-9)	U.S Ma	assachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List assachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List;			
			nnsylvania - RTK (Right			

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 4/26/2023

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

Other information

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Full text of H-phrases			
H315	Causes skin irritation		
H320	Causes eye irritation		
H350	May cause cancer		
Safaty Data Shoat (SDS) LISA			

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.