

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/15/2015 Revision date: 5/24/2024 Supersedes: 2/24/2021

SECTION 1: Identification					
1.1. Identification					
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Patriot : Mixture : 7196 : Alumina-Silicate	a Brick			
1.2. Recommended use and restrictions on t		e Drick			
Use of the substance/mixture	: Refractory Brick	ĸ			
Recommended use	: Industrial use				
1.3. Supplier					
Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.com</u>	om				
1.4. Emergency telephone number					
Emergency number	: EMERGENCY Outside USA &			Canada 1-800-	-424-9300
SECTION 2: Hazard(s) identification		Cunada I I 700	5141 0010		
2.1. Classification of the substance or mixtu	re				
GHS US classification Carcinogenicity Category 1A Specific target organ toxicity – Single exposure, Cate Respiratory tract irritation Full text of H statements : see section 16	gory 3,	H350 H335		cancer (Inhalati respiratory irrita	on, Dust when sawing or tear out) tion
2.2. GHS Label elements, including precauti	onary statemen	nts			
GHS US labeling Hazard pictograms (GHS US)					
Signal word (GHS US) Hazard statements (GHS US) Precautionary statements (GHS US)	 Danger H350 - May cause cancer (Inhalation, Dust when sawing or tear out) May dry/chap skin. Dust from sawing or tear out may irritate eye. P260 - Do not breathe dust. P280 - Wear Safety shoes, protective gloves, eye protection. 				
		338 - IF IN EYE	S: Rinse caut	iously with wate	er for several minutes. Remove
2.3. Other hazards which do not result in cla				- J.	
No additional information available					
2.4. Unknown acute toxicity (GHS US)					
No additional information available					
SECTION 3: Composition/Information o	n ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
Name				%	GHS US classification
aluminium oxide, non-fibrous cristobalite			1344-28-1 14464-46-1	10 - 20	Not classified Carc. 1A, H350
Full text of hazard classes and H-statements : see se	ction 16	CAS-NO.:	14404-40-1	10 – 20	Ualu. IA, 1300
SECTION 4: First-aid measures					
4.1. Description of first aid measures First-aid measures general	: Never give any	thing by mouth	to an unconse	cious person.	
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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday	/, March 26, 2012 / Rules and Regulations
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	 Allow affected person to breathe fresh air. Gently wash with plenty of soap and water. 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.
4.2. Most important symptoms and effect	ts (acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. Slight irritation. Dust from sawing or tear out may irritate eye. No data available.
4.3. Immediate medical attention and spe	
No additional information available	colar treatment, in necessary
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	
Suitable extinguishing media Unsuitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. : In case of fire, all extinguishing media allowed.
5.2. Specific hazards arising from the ch	
Fire hazard	: Not flammable.
5.3. Special protective equipment and pr	
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	uipment and emergency procedures
6.1.1. For non-emergency personnel No additional information available 6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for containme	
Methods for cleaning up	: Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	. Weer Sefety share Claure
Precautions for safe handling Hygiene measures	 Wear Safety shoes, Gloves. 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	
Storage conditions	: Store this product in a dry location where it can be protected from the elements.
SECTION 8: Exposure controls/perse	onal protection
8.1. Control parameters	
Patriot (Mixture) No additional information available	
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA USA - OSHA - Occupational Exposure Limits	0.025 mg/m ³ respirable dust
OSHA PEL (TWA) [1]	0.05 mg/m ³ respirable dust
aluminium oxide, non-fibrous (1344-28-	1)
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA	s 1 mg/m ³ respirable dust
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Provide adequate ventilation to minimize dust concentrations. Dust when sawing or tear out.

Safety Data Sheet

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

8.3. Individual protection measures/Personal p	protective equipment
Hand protection:	
Wear protective gloves.	
Eye protection:	
Chemical goggles or safety glasses	
Skin and body protection:	
Safety shoes. Wear suitable protective clothing	
Respiratory protection:	
Dust when sawing or tear out. Where exposure through	n inhalation may occur from use, respiratory protection equipment is recommended
SECTION 9: Physical and chemical prope	rties
9.1. Information on basic physical and chemic	al properties
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 density:Solubility:Partition coefficient n-octanol/water (Log Pow):Auto-ignition temperature:Viscosity, kinematic:Viscosity, dynamic:Explosion limits:Explosive properties:	Solid Tan Colored Brick Shape. light brown None No data available No data available $> 2000 ^{\circ}F$ No data available No data available
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
None known.	
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	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (dermal) :	Not classified Not classified Not classified

Safety Data Sheet

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

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))
Skin corrosion/irritation :	Not classified
cristobalite (14464-46-1)	
рН	6 – 7
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Serious eye damage/irritation :	Not classified
cristobalite (14464-46-1)	
рН	6 - 7
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
Respiratory or skin sensitization:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:Aspiration hazard:Viscosity, kinematic:	Not classified Not classified May cause cancer (Inhalation, Dust when sawing or tear out). Not classified May cause respiratory irritation. Not classified Not classified Not dassified No data available
aluminium oxide, non-fibrous (1344-28-1)	
Viscosity, kinematic	Not applicable (solid)
Symptoms/effects after inhalation : Symptoms/effects after skin contact : Symptoms/effects after eye contact :	May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. Slight irritation. Dust from sawing or tear out may irritate eye. No data available.
SECTION 12: Ecological information	
12.1. Toxicity	
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)
12.2. Persistence and degradability	
cristobalite (14464-46-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
aluminium oxide, non-fibrous (1344-28-1)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
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Safety Data Sheet

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12.3. Bioaccumulative potential cristobalite (14464-46-1) Bioaccumulative potential No data available. aluminium oxide, non-fibrous (1344-28-1) Bioaccumulative potential No data available. 12.4. Mobility in soil Cristobalite (14464-46-1) Ecology - soil No data available. aluminium oxide, non-fibrous (1344-28-1) State tension Surface tension No data available in the iterature Ecology - soil No data available. 32.5. Other adverse effects No data available. No additional information available SECTION 13: Disposal considerations SECTION 14: Transport information : Dispose in a safe manner in accordance with local/national regulations. SECTION 14: Transport information : Dispose in a safe manner in accordance with local/national regulations. SECTION 15: Regulatory information : Dispose in a safe manner in accordance with local/national regulations. SECTION 14: Transport information : Dispose in a safe manner in accordance with local/national regulations. SECTION 15: Regulatory information : Dispose in a safe manner in accordance with local/national regulations. SECTION 15: Regulatory information : Dispose in a safe manner in accordance with local/national/national/national/national/national/nationa		
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12.4. Mobility in soll cristobalite (14464-46-1) Ecology - soll No data available. aluminium oxide, non-fibrous (1344-28-1) Surface tension No data available in the literature Ecology - soll No data available. 12.5. Other adverse effects No data available. No additional information available SECTION 13: Disposal considerations 13.1. Disposal methods Disposal methods Product/Packaging disposal recommendations : Disposal nethods Product/Packaging disposal recommendations : Disposal nethods Product/Packaging disposal proceed on a safe manner in accordance with local/national regulations. SECTION 14: Transport information In accordance with DOT NDG / IMDG / IATA Department of Transport tand (DOT) Not regulated Transport by sea Not regulated SECTION 15: Regulatory information 15.1. US Federal regulations State SARA Section 313 All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) invertexy situminium oxide, non-fibrous (1344-28-1) State SARA Section 313 Note Note: The section 313 chenical list contains CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxid	aluminium oxide, non-fibrous (1344-28-1)	·
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Ecology - soil No data available. 12.5. Other adverse effects No additional information available SECTION 13: Disposal considerations Image: Section 13: Disposal considerations 13.1. Disposal methods Product/Packaging disposal recommendations Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. SECTION 14: Transport information In accordance with DOT Tool (MOG / IATA Department of Transportation (DOT) In accordance with DOT Tool (MOG / IATA Department of Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport by sea Not regulated Sector 19 yea Not engulated SECTION 15: Regulatory information 15.1. US 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 All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory All subject to reporting requirements of the United States SARA Section 313 Note Note: The section 333 chroines (CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum oxide in the fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise use of aluminum oxide in the fibrous form triggers reporting. 12. International regulations CANDA Critistobalite (1446-4	aluminium oxide, non-fibrous (1344-28-1)	
2.5. Other adverse effects No additional information available SECTION 13: Disposal considerations 13.1. Disposal methods ProductPackaging 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 Transport by sea Not regulated Transport by sea Not regulated SECTION 15: Regulatory information 15.1. US 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) inventor aluminium oxide, non-fibrous (1344-28-1) Note Mote: The section 313 chemical list contains "CAS # 134-28-1 Aluminum Oxide (Fibrous torms)"; the Aluminum oxide contained in this product is non-fibrous, and thus is not a section 313 model. Note Note: The section 313 chemical list contains "CAS # 134-28-1 Aluminum Oxide (Fibrous torms)"; the Aluminum oxide contained in this product is non-fibrous, and thus is not a section 313 model. Note Interview use of aluminum oxide in the fibrous form triggers reporting. 152. International Fegulations	Surface tension	No data available in the literature
No additional information available SECTION 13: Disposal considerations 13.1. Disposal methods ProductPackadging 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 Not regulated SECTION 15: Regulatory information IS.1. US Federal regulations All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TGCA) inventory aluminium oxide, non-fibrous (1344-28-1) Not subject to reporting requirements of the United States SARA Section 313 Note Note: 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 cheristobalite (14464-46-1) Listed on the Canadian DSL (Domestic Substances List) EU-Regulations Not additional Information SL. (Domestic Substances List) EU-Regulations Not additional Information SL. (Domestic Substances List) EU-Regulations Not additional Information USL (Domestic Substances List) EU-Regulations Not additional Information available National regulations Patrict (Mixture) U.S California Proposition 65 - Other Information This product contains crystalline slica, a chemical known to the State of California to cause	Ecology - soil	No data available.
SECTION 13: Disposal considerations 13.1. Disposal methods ProductPackaging 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 TDG / IMDG / IATA Department of Transportation (DOT) in accordance with DOT TDG / IMDG / IATA Department of Transportation of Dangerous Goods in accordance with DOT TDG / IMDG / IATA Department of Transportation of Dangerous Goods in transport Not regulated Air transport SECTION 15: Regulatory information 15.1. US 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 aluminum oxide, non-fibrous (1344-28-1) Not subject to reporting requirements of the product is non-fibrous, and thus is not a section 313 material. Only manufacturing, processing, or otherwise used aluminum oxide in the fibrous form triggers reporting. 15.2. International regulations Canadian DSL (Domestic Substances List) aluminum oxide, non-fibrous (1344-28-1) Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian DSL (Domestic Substances List) Liseta on the Canadian DSL (Domestic Substances List)		
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SECTION 15: Regulatory information 15.1. US 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 aluminium oxide, non-fibrous (1344-28-1) Not subject to reporting requirements of the United States SARA Section 313 Note 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. 15.2. International regulations CANADA cristobalite (14464-46-1) Listed on the Canadian DSL (Domestic Substances List) aluminum oxide, non-fibrous (1344-28-1) Listed on the Canadian DSL (Domestic Substances List) EU-Regulations No additional information available National regulations No additional information available Notaditional information available Notaditional information available Notaditional information available Notaditional information available <td>In accordance with DOT Not regulated Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport</td> <td></td>	In accordance with DOT Not regulated Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport	
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Safety Data Sheet

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

cristobalite (14464-	-46-1)				
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 - Female	Reproductive Toxicity - Male		
Yes	No	No	No		
Component		State or local regulations			
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			
aluminium oxide, non-f	ïbrous (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			
SECTION 16: Oth	er information				
according to Federal Re	egister / Vol. 77, No. 58 / Monda	ay, March 26, 2012 / Rule	es and Regulations		
Revision date	:	: 5/24/2024			
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 H-phrases	;				
H335 Ma	av cause respiratory irritation				

H335	May cause respiratory irritation
H350	May cause cancer
Safety Data Shee	

Safety Data Sheet (SDS), USA

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