

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/3/2015 Revision date: 5/20/2024 Supersedes: 2/24/2021

SECTION 1: Identification					
1.1. Identification					
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Patriot HF : Mixture : 7197 : Alumina-Silicate B	Irick			
1.2. Recommended use and restrictions on u					
	: Refractory Brick				
	: 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.cc</u>	<u>om</u>				
1.4. Emergency telephone number					
Emergency number	: EMERGENCY ON Outside USA & Ca			Canada 1-800-	424-9300
SECTION 2: Hazard(s) identification					
2.1. Classification of the substance or mixtu	re				
GHS US classification Carcinogenicity Category 1A Specific target organ toxicity – Single exposure, Category Respiratory tract irritation Full text of H statements : see section 16				cancer (Inhalatio respiratory irrita	on, Dust when sawing or tear out) tion
2.2. GHS Label elements, including precauti	onary statements				
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. 				
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
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 of	n ingredients				
3.1. Substances					
Not applicable					
3.2. Mixtures					
Name		Product i		%	GHS US classification
aluminium oxide, non-fibrous cristobalite		CAS-No.: 1 CAS-No.: 1		10 – 20 10 – 20	Not classified Carc. 1A, H350
Full text of hazard classes and H-statements : see set	ction 16	0/10-110 1		10 - 20	
SECTION 4: First-aid measures					
4.1. Description of first aid measures					
First-aid measures general	: Never give anythir	ng by mouth to	an uncons	cious person.	

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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 sp	
No additional information available	ecial treatment, il necessal y
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguish	aing 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 ch	iemical
Fire hazard	: Not flammable.
5.3. Special protective equipment and p	recautions for fire-fighters
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance.
SECTION 6: Accidental release mean	sures
6.1. Personal precautions, protective eq	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	
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	ng any incompatibilities
Storage conditions	: Store this product in a dry location where it can be protected from the elements.
SECTION 8: Exposure controls/pers	onal protection
8.1. Control parameters	
Patriot HF (Mixture) No additional information available	
cristobalite (14464-46-1)	
USA - ACGIH - Occupational Exposure Limits	S S
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
aluminium oxide, non-fibrous (1344-28-	
USA - ACGIH - Occupational Exposure Limit ACGIH OEL TWA	s 1 mg/m³ respirable dust
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Dust when sawing or tear out. Provide adequate ventilation to minimize dust concentrations.

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8.3. Individual protection measures/Persona	I 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:	
	igh inhalation may occur from use, respiratory protection equipment is recommended
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical and chem	
Physical state 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) Auto-ignition temperature Decomposition temperature Decomposition temperature Viscosity, kinematic Viscosity, dynamic Explosion limits Explosive properties Oxidizing properties 9.2. Other information	 Solid Tan Colored Brick Shape. light brown None No data available > 2000 °F No data available > 2000 °F 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	
	: Not classified
Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified

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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 %)	
Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:Aspiration hazard:	Not classified Not classified May cause cancer (Inhalation, Dust when sawing or tear out). Not classified May cause respiratory irritation. Not classified Not classified	
	No data available	
aluminium oxide, non-fibrous (1344-28-1)		
Viscosity, kinematic	Not applicable (solid)	
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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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)	·	
Surface tension	No data available in the literature	
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 : SECTION 14: Transport information	Dispose in a safe manner in accordance with local/national regulations.	
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		
All components of this product are present and listed a (TSCA) inventory	s Active on the United States Environmental Protection Agency Toxic Substances Control Act	
aluminium oxide, non-fibrous (1344-28-1)		
oxide contained in t	tes SARA Section 313 13 chemical list contains "CAS # 1344-28-1 Aluminum Oxide (Fibrous forms)"; the Aluminum his product is non-fibrous, and thus is not a section 313 material. Only manufacturing, rwise 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	st)	
aluminium oxide, non-fibrous (1344-28-1)		
Listed on the Canadian DSL (Domestic Substances Lis	st)	
EU-Regulations No additional information available		
National regulations		
No additional information available 15.3. US State regulations		
Patriot HF (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 WWW.P65Warnings.ca.gov	

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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 Haz Substance List; U.S Pennsylvania - RTK (Right to Know) List			t to Know Hazardous		
aluminium oxide, non-fibrous (1344-28-1) U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Ha: Substance List; U.S Pennsylvania - RTK (Right to Know) List			t to Know Hazardous		
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	:	: 5/20/2024			
Other information	:	: Report language name. English. In the event of any conflict between English and other languag versions, the English version shall prevail.			
Full text of H-phrases	;				
H335 Ma	v cause respiratory irritation				

H335	May cause respiratory irritation
H350	May cause cancer
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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.