

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/1/2015 Revision date: 8/15/2024 Supersedes: 9/13/2021

SECTION 1: Identification			
1.1. Identification			
Product form	: Mixture : Rescoram 10CR		
Product name CAS-No.	: Mixture		
Product code	: 0553		
Other means of identification	: Plastic/Ramming Mix Refractory		
1.2. Recommended use and restrictions on			
Use of the substance/mixture Recommended use	: Refractory : 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</u> 1.4. Emergency telephone number	.com		
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 mixt	ture		
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 Full text of H statements : see section 16	H350 After drying May cause cancer (Inhalation)		
2.2. GHS Label elements, including precau	tionary 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		
Precautionary statements (GHS US)	 H350 - After drying May cause cancer (Inhalation) 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 c No additional information available	lassification		
2.4 Unknown acute toxicity (GHS US)			
2.4. Unknown acute toxicity (GHS US) No additional information available			
	on ingredients		
No additional information available	on ingredients		
No additional information available SECTION 3: Composition/Information	on ingredients		
No additional information available SECTION 3: Composition/Information of 3.1. Substances	on ingredients		
No additional information available SECTION 3: Composition/Information of 3.1. Substances Not applicable 3.2. Mixtures			
No additional information available SECTION 3: Composition/Information of 3.1. Substances Not applicable 3.2. Mixtures Name	Product identifier % GHS US classification		
No additional information available SECTION 3: Composition/Information of 3.1. Substances Not applicable 3.2. Mixtures Name aluminium oxide, non-fibrous	Product identifier % GHS US classification CAS-No.: 1344-28-1 75 – 95 Not classified		
No additional information available SECTION 3: Composition/Information of 3.1. Substances Not applicable 3.2. Mixtures Name aluminium oxide, non-fibrous chromium(III) oxide	Product identifier%GHS US classificationCAS-No.: 1344-28-175 – 95Not classifiedCAS-No.: 1308-38-95 – 10Not classified		
No additional information available SECTION 3: Composition/Information of 3.1. Substances Not applicable 3.2. Mixtures Name aluminium oxide, non-fibrous	Product identifier % GHS US classification CAS-No.: 1344-28-1 75 – 95 Not classified		

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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 First-aid measures after eye contact	: Gently wash with plenty of soap and water. : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if presen		
	and easy to do. Continue rinsing.		
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
4.2. Most important symptoms and effects (
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.		
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. After drying or heating. Dust on tear out. May cause cancer by inhalation.		
Symptoms/effects after skin contact	: Causes skin irritation.		
Symptoms/effects after eye contact	: Causes eye irritation.		
4.3. Immediate medical attention and specia	al 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 chem			
Fire hazard	: Not flammable.		
5.3. Special protective equipment and preca			
Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Prevent fire-fighting water from entering environment.		
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.		
SECTION 6: Accidental release measur	es		
6.1. Personal precautions, protective equip	ment and emergency procedures		
6.1.1. For non-emergency personnel Emergency procedures	: Avoid contact with skin and eyes.		
6.1.2. For emergency responders	. Avoid contact with skin and eyes.		
Protective equipment	: Equip cleanup crew with proper protection.		
Emergency procedures	: On land, sweep or shovel into suitable containers.		
6.2. Environmental precautions			
Prevent entry to sewers and public waters.			
6.3. Methods and material for containment a			
Methods for cleaning up 6.4. Reference to other sections	: On land, sweep or shovel into suitable containers.		
See Heading 8. Exposure controls and personal prot	ection		
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. After drying 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 a	any incompatibilities		
Storage conditions	: Store this product in a dry location where it can be protected from the elements.		
SECTION 8: Exposure controls/persona	al protection		
8.1. Control parameters			
Rescoram 10CR (Mixture)			
No additional information available			
aluminium oxide, non-fibrous (1344-28-1)			
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA	1 mg/m ³ respirable dust		
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phosphoric acid, conc=75%, aqueous solution	tion (7664-38-2)
No additional information available	
chromium(III) oxide (1308-38-9)	
No additional information available	
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m ³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)
USA - OSHA - Occupational Exposure Limits	
Local name	Silica, crystalline quartz, respirable dust
OSHA PEL (TWA) [1]	0.05 mg/m ³ respirable dust
Remark (OSHA)	(3) See Table Z-3.
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Emergency eye wash fountain with clean water.
8.3. Individual protection measures/Person	al 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:	
Dust when sawing or tear out. Wear appropriate ma	sk
Other information: Do not eat, drink or smoke during use.	
SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical and chem	· · · · · · · · · · · · · · · · · · ·
Physical state	: Solid
Appearance	: Plastic.
Color	: Green
Odor Odan thread a lat	: Acid Odor
Odor threshold pH	: No data available : < 3
pH solution concentration	. <3 : 10 %
Melting point	: > 2000 °F
Freezing point	: ≈ 32 °F
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 Relative vapor density at 20°C	: No data available
1 ,	: No data available : ≈ 2.7
Relative density Solubility	: ≈ 2.7 : 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	: Not Applicable
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties Oxidizing properties	: No data available : No data available
9.2. Other information	
No additional information available	

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
Fire conditions may produce small amounts of hexavale	nt chromium and other oxidation products. Air Setting.
10.2. Chemical stability	
Stable under normal conditions of use.	
10.3. Possibility of hazardous reactions	
Not established.	
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
	Not classified Not classified
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))
phosphoric acid, conc=75%, aqueous solutio	n (7664-38-2)
ATE US (oral)	4400 mg/kg body weight
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. pH: < 3
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
phosphoric acid, conc=75%, aqueous solutio	n (7664-38-2)
рН	0 – 0.5 (20 °C)
chromium(III) oxide (1308-38-9)	
рН	No data available in the literature
quartz (14808-60-7)	
рН	6 – 7
Serious eye damage/irritation :	Causes eye irritation. pH: < 3
aluminium oxide, non-fibrous (1344-28-1)	
рН	9 – 10.5 (aqueous suspension, 33 %)
phosphoric acid, conc=75%, aqueous solutio	n (7664-38-2)
рН	0 – 0.5 (20 °C)
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chromium(III) oxide (1308-38-9)			
рН	No data available in the literature		
quartz (14808-60-7)			
рН	6 – 7		
Respiratory or skin sensitization :	Not classified		
Germ cell mutagenicity :	Not classified		
Carcinogenicity :	After drying May cause cancer (Inhalation).		
quartz (14808-60-7)	1		
IARC group	1 - Carcinogenic to humans		
Reproductive toxicity :	Not classified		
STOT-single exposure :	Not classified		
STOT-repeated exposure :	Not classified		
Aspiration hazard : Viscosity, kinematic :	Not classified Not Applicable		
aluminium oxide, non-fibrous (1344-28-1)			
	Not applicable (colid)		
Viscosity, kinematic	Not applicable (solid)		
chromium(III) oxide (1308-38-9)			
Viscosity, kinematic	Not applicable (solid)		
	Based on available data, the classification criteria are not met.		
symptoms Symptoms/effects after inhalation :	Danger of serious damage to health by prolonged exposure through inhalation. After drying or		
	heating. Dust on tear out. May cause cancer by 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]	> 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)		
12.2. Persistence and degradability			
Rescoram 10CR (Mixture)			
Persistence and degradability	Not established.		
aluminium oxide, non-fibrous (1344-28-1)			
Persistence and degradability	Not applicable.		
Chemical oxygen demand (COD) ThOD	Not applicable Not applicable		
phosphoric acid, conc=75%, aqueous solutio			
Persistence and degradability	Biodegradability: not applicable.		
chromium(III) oxide (1308-38-9)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
quartz (14808-60-7)			
Persistence and degradability	Not applicable.		
Biochemical oxygen demand (BOD)	Not applicable		
Chemical oxygen demand (COD) ThOD	Not applicable Not applicable		
12.3. Bioaccumulative potential			
Rescoram 10CR (Mixture)			
Bioaccumulative potential	Not established.		

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aluminium oxide, non-fibrous (1344	-28-1)
Bioaccumulative potential	No data available.
phosphoric acid, conc=75%, aqueo	us solution (7664-38-2)
Bioaccumulative potential	No test data of component(s) available.
chromium(III) oxide (1308-38-9)	
Bioaccumulative potential	Not bioaccumulative.
quartz (14808-60-7)	
Bioaccumulative potential	No data available.
12.4. Mobility in soil	
aluminium oxide, non-fibrous (1344	29.1)
Surface tension	No data available in the literature
Ecology - soil	No data available.
phosphoric acid, conc=75%, aqueo	
Ecology - soil	Highly mobile in soil.
chromium(III) oxide (1308-38-9)	Ne dete queileble in the literature
Surface tension Ecology - soil	No data available in the literature Adsorbs into the soil.
12.5. Other adverse effects	
Effect on the global warming	: None known
Other information	: No other effects known.
SECTION 13: Disposal considera	tions
13.1. Disposal methods	
Product/Packaging disposal recommendatic	 Dispose in a safe manner in accordance with local/national regulations. 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 informat	ion
In accordance with DOT / TDG / IMDG / IAT 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	Ā
SECTION 15: Regulatory informa	ation
15.1. US Federal regulations	
Rescoram 10CR (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 (TSCA) inventory	and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act
aluminium oxide, non-fibrous (1344	
Not subject to reporting requirements of the	
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.
phosphoric acid, conc=75%, aqueo	us solution (7664-38-2)
Not subject to reporting requirements of the	
CERCLA RQ	5000 lb
chromium(III) oxide (1308-38-9) Subject to reporting requirements of United	States SARA Section 313

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15.2. International regu	Ilations					
CANADA						
aluminium oxide, non-	aluminium oxide, non-fibrous (1344-28-1)					
Listed on the Canadian DS	L (Domestic Substances Lis	t)				
phosphoric acid, conc	=75%, aqueous solutio	n (7664-38-2)				
Listed on the Canadian DS	L (Domestic Substances Lis	t)				
chromium(III) oxide (13		Ω.				
EU-Regulations	L (Domestic Substances Lis	t)				
No additional information av	vailable					
National regulations						
quartz (14808-60-7)						
Listed on IARC (Internation	nal Agency for Research on	Cancer)				
15.3. US State regulation	ons					
Rescoram 10CR (Mixtu	ure)					
U.S California - Propositi		This product contains c	This product contains crystalline silica, a chemical known to the state of California to cause			
		cancer. This product co	ontains chromite (Cr*+3)	which may in normal us	se, be converted	
		chemically to a chromate (Cr*+6) hexavalent chrome, a chemical known to the State of				
		California to cause can	cer. For more information	on go to WWW.P65War	nings.ca.gov	
quartz (14808-60-7) 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			
g		- Female	- Male			
Yes	No	No	No			
Component		State or local regul				
aluminium oxide, non-fibro	us (1344-28-1)		Right To Know List; U.S		o Know Hazardous	
phosphoric acid, conc=75%, aqueous solution (7664-		Substance List; U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK				
38-2)	o, aqueous solution (7004-	(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				
Quartz (14808-60-7)		U.S New Jersey - Right to Know Hazardous Substance List				
SECTION 16: Other i	nformation					
	er / Vol. 77, No. 58 / Monday		s and Regulations			
Revision date		8/15/2024	– – – – – – – – – –	<i></i>		
Other information				any conflict between En	glish and other language	
Full toxt of H phrases		versions, the English ve	rsion shall prevail.			

Full text of m-pilla	a555
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H320	Causes eye irritation
H350	May cause cancer
Safaty Data Sheet (SDS) USA	

Safety Data Sheet (SDS), USA

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