

#### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 4/28/2023 Revision date: 4/28/2023 Supersedes: 11/11/2020

SECTION 1: Identification							
1.1. Identification							
Product form Product name CAS-No. Product code Other means of identification	: Mixture : Larcobond : Mixture : 0967 : Basic Speciality						
1.2. Recommended use and restrictions or							
Use of the substance/mixture Recommended use 1.3. Supplier	: Refractory : Industrial use						
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</u>	s.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 mix	ture						
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	H315Causes skin irritationH320Causes eye irritationH350May cause cancer (Inhalation)						
2.2. GHS Label elements, including precau	itionary statements						
GHS US labeling Hazard pictograms (GHS US)							
Signal word (GHS US) Hazard statements (GHS US)	<ul> <li>Danger</li> <li>H315 - Causes skin irritation</li> <li>H350 - May cause cancer (Inhalation)</li> <li>Causes are irritation</li> </ul>						
Precautionary statements (GHS US)	Causes eye irritation : P280 - Wear Dust respirator, eye protection, 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.						
2.3. Other hazards which do not result in c	assification						
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 Magnesium Oxide	Product identifier         %         GHS US classification           CAS-No.: 1309-48-4         50 – 75         Not classified						
Transvaal Chrome Ore	CAS-No.: 1309-48-4 50 – 75 Not classified CAS-No.: 1308-31-2 20 – 50 Not classified						
quartz	CAS-No.: 14808-60-7 0.5 – 1 Carc. 1A, H350						
Full text of hazard classes and H-statements : see	section 16						

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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	Gently wash with plenty of soap and water. Take off contaminated clothing and wash it before				
First-aid measures after eye contact	<ul> <li>reuse.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>				
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.				
4.2. Most important symptoms and effects (	acute and delayed)				
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.				
symptoms Symptoms/effects after inhalation	: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure				
Symptoms/effects after skin contact	through inhalation.				
4.3. Immediate medical attention and specia					
No additional information available					
SECTION 5: Fire-fighting measures					
5.1. Suitable (and unsuitable) extinguishing					
Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>Use extinguishing media appropriate for surrounding fire.</li> <li>No unsuitable extinguishing media known.</li> </ul>				
5.2. Specific hazards arising from the chem	0 0				
Fire hazard	: Not flammable.				
5.3. Special protective equipment and preca	autions for fire-fighters				
Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.				
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.				
<b>SECTION 6: Accidental release measur</b>	es				
6.1. Personal precautions, protective equip	ment and emergency procedures				
6.1.1. For non-emergency personnel No additional information available 6.1.2. For emergency responders					
Protective equipment Emergency procedures	<ul><li>Equip cleanup crew with proper protection.</li><li>Stop release.</li></ul>				
6.2. Environmental precautions					
No additional information available					
6.3. Methods and material for containment a	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 See Heading 8. Exposure controls and personal prot					
SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Precautions for safe handling Hygiene measures	<ul> <li>Avoid contact with eyes. Avoid contact with skin.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.</li> </ul>				
7.2. Conditions for safe storage, including a					
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/persona	al protection				
8.1. Control parameters					
Larcobond (Mixture)					
No additional information available					

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Magnesium Oxide (1309-48-4)						
USA - ACGIH - Occupational Exposure Limits						
ACGIH OEL TWA	10 mg/m <sup>3</sup> inhalable dust					
USA - OSHA - Occupational Exposure Limits						
OSHA PEL (TWA) [1]	SHA PEL (TWA) [1]     10 mg/m³ respirable dust					
Transvaal Chrome Ore (1308-31-2)						
USA - ACGIH - Occupational Exposure Limits						
ACGIH OEL TWA	0.05 mg/m <sup>3</sup> inhalable dust					
quartz (14808-60-7)						
USA - ACGIH - Occupational Exposure Limits						
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> (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 <sup>3</sup> respirable dust					
Remark (OSHA)	(3) See Table Z-3.					
8.2. Appropriate engineering controls						
	: Provide adequate ventilation to minimize dust concentrations.					
8.3. Individual protection measures/Persona Personal protective equipment:	I protective equipment					
Avoid all unnecessary exposure.						
Hand protection:						
Wear protective gloves.						
Eye protection:						
Chemical goggles or safety glasses						
Skin and body protection:						
Safety shoes. Wear suitable protective clothing						
Respiratory protection:						
[In case of inadequate ventilation] wear respiratory p	rotection.					
Other information:						
Do not eat, drink or smoke during use.						
SECTION 9: Physical and chemical prop						
9.1. Information on basic physical and chem						
Physical state Appearance	: Solid : Granualar Mixture.					
Color	: dark brown					
Odor	: odorless					
Odor threshold	: No data available					
pH Melting point	: No data available : > 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 Solubility	: No data available : Insoluble in water.					
Partition coefficient n-octanol/water (Log Pow)	: No data available					

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Auto-ignition temperature Decomposition temperature Viscosity, kinematic	No data available No data available Not Applicable		
Viscosity, dynamic Explosion limits	No data available 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			
Fire conditions may produce small amounts of hexava	lent chromium and other oxidation products.		
10.2. Chemical stability			
Not established.			
10.3. Possibility of hazardous reactions			
Not established.			
10.4. Conditions to avoid			
No additional information available			
10.5. Incompatible materials			
Strong acids. Strong bases. 10.6. Hazardous decomposition products			
Under normal conditions of storage and use, hazardou	is decomposition products should not be produced		
SECTION 11: Toxicological information			
11.1. Information on toxicological effects			
Acute toxicity (oral) acute toxicity (dermal)	Not classified		
Acute toxicity (inhalation)	Not classified		
Magnesium Oxide (1309-48-4)			
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)		
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit, Literature study, Dermal)		
Skin corrosion/irritation	Causes skin irritation.		
Magnesium Oxide (1309-48-4)			
рН	11 (10 %)		
pH	6-7		
	Causes eye irritation.		
Magnesium Oxide (1309-48-4)			
рН	11 (10 %)		
quartz (14808-60-7)			
рН	6 – 7		
Respiratory or skin sensitization	Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity :	May cause cancer (Inhalation).		
quartz (14808-60-7)			
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		

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Magnesium Oxide (1309-48-4)				
Viscosity, kinematic	Not applicable (solid)			
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.			
symptoms Symptoms/effects after inhalation	: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure			
Symptoms/effects after skin contact	through inhalation. : Causes skin irritation.			
SECTION 12: Ecological information				
12.1. Toxicity				
No additional information available				
12.2. Persistence and degradability				
Larcobond (Mixture)				
Persistence and degradability	Not established.			
Magnesium Oxide (1309-48-4)				
Persistence and degradability	Not applicable.			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
Transvaal Chrome Ore (1308-31-2)				
Persistence and degradability	Not established.			
Chemical oxygen demand (COD) ThOD	Not applicable           Not applicable			
quartz (14808-60-7)				
Persistence and degradability	Not applicable.			
Biochemical oxygen demand (BOD)	Not applicable			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
12.3. Bioaccumulative potential				
Larcobond (Mixture)				
Bioaccumulative potential	Not established.			
Magnesium Oxide (1309-48-4)				
Bioaccumulative potential	No bioaccumulation data available.			
Transvaal Chrome Ore (1308-31-2)				
Bioaccumulative potential	No data available.			
quartz (14808-60-7)				
Bioaccumulative potential	No data available.			
12.4. Mobility in soil				
Magnesium Oxide (1309-48-4)				
Surface tension	No data available in the literature			
Ecology - soil	No data available.			
Transvaal Chrome Ore (1308-31-2)				
Ecology - soil	No data available.			
12.5. Other adverse effects				
Effect on the global warming	: None known			
	: Avoid release to the environment.			
SECTION 13: Disposal considerations				
13.1. Disposal methods				
	: Chromite (Cr*+3) may in normal use be converted chemically to a chromate (Cr*+6). Hexavalent			
	chromium (Cr*+6) is considered a hazardous material.			
0,	: Avoid release to the environment.			
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				

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Transport by sea Not regulated						
Air transport						
Not regulated						
SECTION 15: Regula	atory information					
15.1. US Federal regula	ations					
	duct are present and listed a	as Active on the United St	ates Environmental Pro	tection Agency Toxic S	Substances Control Act	
(TSCA) inventory, except f Transvaal Chrome Ore	or:	CAC No. 4000.04.0	00 5	00/		
	de Cene	CAS-No. 1308-31-2	20 – 5	0%		
15.2. International regu	liations					
CANADA Magnesium Oxide (13)	00 40 4)					
	09-40-4) SL (Domestic Substances Li	st)				
Eisted off the Ganadian De		50				
<b>Transvaal Chrome Ore</b>	e (1308-31-2)					
	DSL (Domestic Substance	s List)/NDSL (Non-Dome	stic Substances List)			
EU-Regulations	ve lleble					
No additional information av National regulations	/allable					
quartz (14808-60-7)						
	nal Agency for Research on	Cancer)				
15.3. US State regulati		,				
Larcobond (Mixture)						
U.S California - Propositi	ion 65 - Other information	This product contains of	rystalline silica, a chem	ical known to the state	of California to cause	
			mation go to WWW.P65			
Transvaal Chrome Ore				· · ·		
U.S California - Propositi	ion 65 - Other Information		valent chrome, a chemi		converted chemically to a	
		cancer.	valent enforme, a enermi		or callornia to cause	
		•				
quartz (14808-60-7)						
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk	Maximum allowable	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity	Proposition 65 - Reproductive Toxicity	level (NSRL)	dose level (MADL)	
Carolinogono Liot	Developmental Toxiony	- Female	- Male			
Yes	No	No	No			
Component		State or local regul	ationa			
Magnesium Oxide (1309-4	8-4)			S - New Jersey - Right	to Know Hazardous	
	0 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				
Transvaal Chrome Ore (1308-31-2)		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 - Rig	ght to Know Hazardous	Substance List		
SECTION 16: Other i	information					
according to Federal Regist	ter / Vol. 77, No. 58 / Monda	y, March 26, 2012 / Rule	s and Regulations			
Revision date	:	4/28/2023	<b>-</b>	<i>a</i>		
Other information	:	Report language name. versions. the English ve		any conflict between E	English and other language	
Full text of H-phrases		versions, the English ve	rsion shali prevall.			
	s skin irritation					
	Causes eye irritation					
	ause cancer					
Safety Data Sheet (SDS), L	JSA					

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