

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 11/11/2020 Supersedes: 10/09/2018 Date of issue: 11/11/2020

SECTION 1: Identification

Identification

Product form Mixture Product name Larcobond AS CAS-No. Mixture Product code 7320 Other means of identification **Basic Speciality**

Recommended use and restrictions on use

Use of the substance/mixture Refractory Recommended use : Industrial use

Supplier

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Emergency number : EMERGENCY ONLY (CHEMTREC) USA & Canada 1-800-424-9300

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SECTION 2: Hazard(s) identification

Classification of the substance or mixture

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 H350 May cause cancer (Inhalation)

Full text of H statements: see section 16

GHS Label elements, including precautionary statements 2.2.

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) Danger

Hazard statements (GHS US) H315 - Causes skin irritation

H350 - May cause cancer (Inhalation)

Causes eye irritation

Precautionary statements (GHS US)

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.

Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Substances 3.1.

Not applicable

Mixtures

Name	Product identifier	%	GHS US classification
Magnesium Oxide	(CAS-No.) 1309-48-4	50 – 75	Not classified
Transvaal Chrome Ore	(CAS-No.) 1308-31-2	20 – 50	Not classified
magnesium sulphate	(CAS-No.) 7487-88-9	1 – 5	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

SECTION 4: First-aid measures

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.

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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 : 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. Obtain emergency medical attention.

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

: May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure

through inhalation. Causes skin irritation.

Symptoms/effects after skin contact Immediate medical attention and special treatment, if necessary

No additional information available

Symptoms/effects after inhalation

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

Specific hazards arising from the chemical

Fire hazard : Not flammable.

Special protective equipment and precautions for fire-fighters 5.3.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop release.

Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up : On land, sweep or shovel into suitable containers.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Avoid contact with skin.

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures

smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

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/personal protection

Control parameters

Larcobond AS (Mixture)		
No additional information available		
Magnesium Oxide (1309-48-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	10 mg/m³ inhalable dust	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) (mg/m³)	10 mg/m³ respirable dust	
magnesium sulphate (7487-88-9)		
No additional information available		
Transvaal Chrome Ore (1308-31-2)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.05 mg/m³ inhalable dust	
quartz (14808-60-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction)	

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USA - OSHA - Occupational Exposure Limits		
Local name	Silica, crystalline quartz, respirable dust	
OSHA PEL (TWA) (mg/m³)	0.05 mg/m³ respirable dust	
Remark (OSHA)	(3) See Table Z-3.	

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate ventilation to minimize dust concentrations.

3.3. Individual protection measures/Personal 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:

After air drying or heating. Dust when sawing or tear out. Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

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Appearance : Granualar Mixture.
Color : Dark

Odor : odorless
Odor threshold : Not applicable
pH : No data available

Melting point : > 2500 °F

Freezing point No data available Boiling point : Not applicable Critical temperature : Not applicable Critical pressure Not applicable Not applicable Flash point Relative evaporation rate (butyl acetate=1) : Not applicable Relative evaporation rate (ether=1) Not applicable Flammability (solid, gas) Non flammable. Vapor pressure Not applicable Vapor pressure at 50 °C Not applicable Relative vapor density at 20 °C No data available Relative density : No data available Solubility

Insoluble in water. Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic Not Applicable **Explosion limits** : Not applicable 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 hexavalent chromium and other oxidation products.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

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10.4. Conditions to avoid	
No additional information available	
10.5. Incompatible materials	
Strong acids. Strong bases. 10.6. Hazardous decomposition proc	lusto
	e, hazardous decomposition products should not be produced.
SECTION 11: Toxicological infor	
11.1. Information on toxicological eff	
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified
Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified
Magnesium Oxide (1309-48-4)	. Not diagonica
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 2000 mg/kg body weight (Rabbit, Literature study, Dermal)
	> 2000 Hig/kg body weight (Rabbit, Elterature study, Dermai)
magnesium sulphate (7487-88-9)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Male / female, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
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

Reproductive toxicity STOT-single exposure STOT-repeated exposure Not classified Not classified Not classified

Aspiration hazard Not classified Viscosity, kinematic
Potential Adverse human health effects and No data available

Based on available data, the classification criteria are not met. symptoms

Symptoms/effects after skin contact

Symptoms/effects after inhalation : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.

: Causes skin irritation.

SECTION 12: Ecological information

Toxicity 12.1.

magnesium sulphate (7487-88-9)			
LC50 fish 1	15500 mg/l (96 h, Gambusia affinis, Static system)		
EC50 Daphnia 1	1700 mg/l (24 h, Daphnia magna)		
12.2. Persistence and degradability			
Larcobond AS (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		
magnesium sulphate (7487-88-9)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
BOD (% of ThOD)	Not applicable		
Transvaal Chrome Ore (1308-31-2)			
Persistence and degradability	Not established.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
quartz (14808-60-7)	quartz (14808-60-7)		
Persistence and degradability	Not applicable.		
Biochemical oxygen demand (BOD)	Not applicable		
T1/F (1110)			

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quartz (14808-60-7)			
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
12.3. Bioaccumulative potential			
Larcobond AS (Mixture)			
Bioaccumulative potential	Not established.		
Magnesium Oxide (1309-48-4)			
Bioaccumulative potential No bioaccumulation data available.			
magnesium sulphate (7487-88-9)			
Bioaccumulative potential No bioaccumulation data available.			
Transvaal Chrome Ore (1308-31-2)			
Bioaccumulative potential No data available.			
quartz (14808-60-7)	quartz (14808-60-7)		
Bioaccumulative potential No data available.			
O. 4. Makilita in pali			

12.4. Mobility in soil

	Magnesium Oxide (1309-48-4)		
	Ecology - soil	No data available.	
i	T 101 0 (1000 01 0)		

Transvaal Chrome Ore (1308-31-2)

Ecology - soil No data available.

12.5. Other adverse effects

Effect on the global warming None known

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations

: Chromite (Cr*+3) may in normal use be converted chemically to a chromate (Cr*+6).

Hexavalent chromium (Cr*+6) is considered a hazardous material.

Avoid release to the environment.

Ecology - waste materials

SECTION 14: Transport information

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

SECTION 15: Regulatory information

15.1. US Federal regulations

Larcobond AS (Mixture)

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

magnesium sulphate	CAS-No. 7487-88-9	1 – 5%
Transvaal Chrome Ore	CAS-No. 1308-31-2	20 – 50%

15.2. International regulations

CANADA

Magnesium Oxide (1309-48-4)

Listed on the Canadian DSL (Domestic Substances List)

Transvaal Chrome Ore (1308-31-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

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15.3.	US Stat	e reau	lations
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Larcobond AS (Mixture)	
U.S California - Proposition 65 - Other	This product contains crystalline silica, a chemical known to the state of California to
information	cause cancer. For more information go to WWW.P65Warnings.ca.gov

Transvaal Chrome Ore (1308-31-2)					
U.S California Other information	- Proposition 65 - n	This product contains chromite (Cr*+3) which may in normal use, be converted chemically to a chromate (Cr*+6) hexavalent chrome, a chemical known to the State of California to cause cancer.			
quartz (14808-6	quartz (14808-60-7)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

Component	State or local regulations
Magnesium Oxide (1309-48-4)	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 - Right to Know Hazardous Substance List

SECTION 16: Other information

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Revision date : 11/11/2020

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:

H315	Causes skin irritation
H320	Causes eye irritation
H350	May cause cancer

SDS US (GHS HazCom 2012)

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.

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