

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

#### 1.2. Recommended use and restrictions on use

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

#### 1.3. Supplier

Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 **United States** 412-494-4491

SDS@RescoProducts.com - WWW.RescoProducts.com

### 1.4. Emergency telephone number

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

Outside USA & Canada +1 703-741-5970

### SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Skin corrosion/irritation Category 2 Causes skin irritation H315 Serious eye damage/eye irritation Category 2B H320 Causes eye irritation H350 Carcinogenicity Category 1A May cause cancer (Inhalation)

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labeling**

Hazard pictograms (GHS US)





Signal word (GHS US)

Danger H315 - Causes skin irritation Hazard statements (GHS US)

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.

### 2.3. Other hazards which do not result in classification

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	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

# Safety Data Sheet

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

# **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

reuse.

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.

### 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

through inhalation.

Symptoms/effects after skin contact : Causes skin irritation.

#### 4.3. Immediate medical attention and special 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 : No unsuitable extinguishing media known.

# 5.2. Specific hazards arising from the chemical

Fire hazard : Not flammable.

### 5.3. Special protective equipment and precautions 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.

### **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.

# 6.2. 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.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

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

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 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**

### 8.1. Control parameters

### **Larcobond AS (Mixture)**

No additional information available

4/28/2023 (Revision date) EN (English US) 2/7

# Safety Data Sheet

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

Magnacium Ovida (1200 49 4)	
Magnesium Oxide (1309-48-4)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	10 mg/m³ inhalable dust
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	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 OEL TWA	0.05 mg/m³ inhalable dust
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	0.025 mg/m³ (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/m³ 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/Personal p	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	

### Other information:

Respiratory protection:

Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

[In case of inadequate ventilation] wear respiratory protection.

# 9.1. Information on basic physical and chemical properties

Solid Physical state Appearance Granualar Mixture. Color Dark Odor odorless Odor threshold No data available рН : No data available > 2500 °F Melting point 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) Non flammable. : No data available Vapor pressure

4/28/2023 (Revision date) EN (English US) 3/7

# Safety Data Sheet

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

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 No data available Decomposition temperature No data available Viscosity, kinematic Not Applicable Viscosity, dynamic No data available Explosion limits No data available Explosive properties No data available No data available Oxidizing properties

### 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.

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

Magnesium Ovide (1300-48-4)

Strong acids. Strong bases.

# 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified 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)	
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, 14 day(s))	
LD50 dermal rat	> 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Read-across, Dermal, 14 day(s))	
Skin corrosion/irritation :	Causes skin irritation.	

Magnesium Oxide (1305-46-4)		
рН	11 (10 %)	
magnesium sulphate (7487-88-9)		
рН	7 (5 %)	
quartz (14808-60-7)		
рН	6 – 7	
Parious and demand/pritation . Courses and irritation		

Serious eye damage/irritation	: Causes eye irritation.
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central cyc damage/initiation	dades eye imation.
Magnesium Oxide (1309-48-4)	
pH	11 (10 %)

# Safety Data Sheet

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

7 (5 %)	
6 – 7	
Not classified Not classified May cause cancer (Inhalation).	
,,	
1 - Carcinogenic to humans	
Not classified Not classified Not classified Not classified Not classified Not classified Not Applicable	
Not applicable (solid)	
Not applicable (solid)	
Based on available data, the classification criteria are not met.	
May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.  Causes skin irritation.	
680 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Read-across, Lethal)	
1700 mg/l (24 h, Daphnia magna)	
15500 mg/l (96 h, Gambusia affinis, Static system)	
Not established.	
Not applicable.	
Not applicable	
Not applicable	
Biodegradability: not applicable.	
Not applicable (inorganic)	
Not applicable (inorganic)	
Not established.	
Not applicable	
Not applicable	

# Safety Data Sheet

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

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 AS (Mixture)	
Bioaccumulative potential	Not established.
Magnesium Oxide (1309-48-4)	
Bioaccumulative potential	No bioaccumulation data available.
magnesium sulphate (7487-88-9)	
Bioaccumulative potential	Not bioaccumulative.
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.
magnesium sulphate (7487-88-9)	
Surface tension	No data available in the literature
Ecology - soil	No (test) data on mobility of the substance available.
Transvaal Chrome Ore (1308-31-2)	
Ecology - soil	No data available.
12.5. Other adverse effects	
9	None known 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.

Ecology - waste materials : 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
Transport by sea
Not regulated
Air transport
Not regulated

4/28/2023 (Revision date) EN (English US) 6/7

# Safety Data Sheet

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

### **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, except for:

(130A) 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)

### 15.3. US State regulations

### **Larcobond AS (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

Transvaal Chrome Ore (1308-31-2)	
U.S California - Proposition 65 - Other information	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 (14808-60-7)					
U.S California - Proposition 65 -	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	,	,
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**

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

Revision date : 4/28/2023

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

Safety Data Sheet (SDS), USA

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.

4/28/2023 (Revision date) EN (English US) 7/7