

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : DOL-Mix-R50+  
CAS-No. : Mixture  
Product code : 5015  
Other means of identification : Dolomite 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  
T 412-494-4491  
[SDS@RescoProducts.com](mailto:SDS@RescoProducts.com) - [WWW.RescoProducts.com](http://WWW.RescoProducts.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 mixture

##### GHS US classification

Skin corrosion/irritation Category 1A H314 Causes severe skin burns and eye damage  
Carcinogenicity Category 1A H350 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  
Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage  
H350 - May cause cancer (Inhalation)  
Precautionary statements (GHS US) : P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear eye protection, protective gloves, protective clothing.  
P223 - Do not allow contact with water.  
Avoid contact with the skin and the eyes  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN: Gently wash with plenty of soap and water.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
P260 - Do not breathe dust.

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

Other hazards which do not result in classification : May release smoke when heated. Combustion products include carbon monoxide, carbon dioxide, and hydrocarbon vapors.

#### 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
calcium oxide	CAS-No.: 1305-78-8	20 – 50	Skin Corr. 1A, H314

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Name	Product identifier	%	GHS US classification
Oil	-	1 – 5	Not classified
crystalite	CAS-No.: 14464-46-1	0.1 – 0.5	Carc. 1A, H350
quartz	CAS-No.: 14808-60-7	0.1 – 0.5	Carc. 1A, H350

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove the victim into fresh air.
First-aid measures after skin contact	: Gently wash with plenty of soap and water.
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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Rinse mouth.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Causes serious eye irritation.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye 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	: Carbon dioxide. Dry powder. Sand.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Reactions involving a fire hazard: see "Reactivity Hazard". Do not breathe fumes from fires or vapors from decomposition.
Hazardous decomposition products in case of fire	: Fire conditions may produce carbon dioxide-carbon monoxide.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: In case of fire, use powder extinguisher, "never use water". In case of fire, never use water.
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

Protective equipment	: Protective gloves. Safety glasses. Safety shoes. Protective clothing.
Emergency procedures	: Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment.
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#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

For containment	: On land, sweep or shovel into suitable containers.
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	: Avoid contact with eyes. Contact lenses should be removed. Keep away from any possible contact with water, because of violent reaction and possible flash fire.
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#### 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. Protect from moisture.
Incompatible products	: Acids; reactive fluorinated, brominated, or phosphorous compounds; aluminum (may form hydrogen gas); reactive metals; organic acid anhydrides; nitro-organic compounds; interhalogenated compounds.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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<b>DOL-Mix-R50+ (Mixture)</b>	
No additional information available	
<b>Magnesium Oxide (1309-48-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	10 mg/m <sup>3</sup> inhalable dust
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	10 mg/m <sup>3</sup> respirable dust
<b>calcium oxide (1305-78-8)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	2 mg/m <sup>3</sup>
<b>crystalite (14464-46-1)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	0.025 mg/m <sup>3</sup> respirable dust
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	0.05 mg/m <sup>3</sup> respirable dust
<b>Oil</b>	
No additional information available	
<b>quartz (14808-60-7)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
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)
<b>USA - OSHA - Occupational Exposure Limits</b>	
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.
<b>8.2. Appropriate engineering controls</b>	
Appropriate engineering controls	: Emergency eye wash fountain with clean water.
<b>8.3. Individual protection measures/Personal protective equipment</b>	
<b>Personal protective equipment:</b>	
Avoid all unnecessary exposure.	
<b>Hand protection:</b>	
Wear protective gloves.	
<b>Eye protection:</b>	
Chemical goggles or safety glasses	
<b>Skin and body protection:</b>	
Wear suitable protective clothing	
<b>SECTION 9: Physical and chemical properties</b>	
<b>9.1. Information on basic physical and chemical properties</b>	
Physical state	: Solid
Appearance	: Granular Mixture.
Color	: brown
Odor	: Slight Petroleum Odor
Odor threshold	: No data available
pH	: No data available
Melting point	: > 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)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 2.8 – 3
Solubility	: Reacts with water to form Ca(OH) <sub>2</sub> , Mg(OH) <sub>2</sub> , and heat.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosion limits : 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

Reacts exothermically with water (moisture). Reacts with water to form Ca(OH)<sub>2</sub>, Mg(OH)<sub>2</sub>, and heat. Reacts with acids to form calcium salts while generating heat.

### 10.2. Chemical stability

No additional information available.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Water, humidity.

### 10.5. Incompatible materials

Acids.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon monoxide. Carbon dioxide.

## 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)
calcium oxide (1305-78-8)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2500 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s))

Skin corrosion/irritation : Causes severe skin burns.

Magnesium Oxide (1309-48-4)	
pH	11 (10 %)
calcium oxide (1305-78-8)	
pH	12.5 (0.13 %, 20 °C)
cristobalite (14464-46-1)	
pH	6 – 7
quartz (14808-60-7)	
pH	6 – 7

Serious eye damage/irritation : Assumed to cause serious eye damage

Magnesium Oxide (1309-48-4)	
pH	11 (10 %)

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<b>calcium oxide (1305-78-8)</b>	
pH	12.5 (0.13 %, 20 °C)
<b>crystalite (14464-46-1)</b>	
pH	6 – 7
<b>quartz (14808-60-7)</b>	
pH	6 – 7
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer (Inhalation).
<b>quartz (14808-60-7)</b>	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
<b>Magnesium Oxide (1309-48-4)</b>	
Viscosity, kinematic	Not applicable (solid)
<b>calcium oxide (1305-78-8)</b>	
Viscosity, kinematic	Not applicable (solid)
Potential Adverse human health effects and symptoms	: Causes serious eye irritation.
Symptoms/effects after skin contact	: May cause moderate irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
<b>SECTION 12: Ecological information</b>	
<b>12.1. Toxicity</b>	
<b>calcium oxide (1305-78-8)</b>	
LC50 - Fish [1]	51 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, GLP)
EC50 - Crustacea [1]	49 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect)
ErC50 algae	185 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP)
<b>12.2. Persistence and degradability</b>	
<b>Magnesium Oxide (1309-48-4)</b>	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
<b>calcium oxide (1305-78-8)</b>	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
<b>crystalite (14464-46-1)</b>	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable

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<b>crystalobalite (14464-46-1)</b>	
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>quartz (14808-60-7)</b>	
Persistence and degradability	Not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
<b>12.3. Bioaccumulative potential</b>	
<b>Magnesium Oxide (1309-48-4)</b>	
Bioaccumulative potential	No bioaccumulation data available.
<b>calcium oxide (1305-78-8)</b>	
Bioaccumulative potential	Not bioaccumulative.
<b>crystalobalite (14464-46-1)</b>	
Bioaccumulative potential	No data available.
<b>quartz (14808-60-7)</b>	
Bioaccumulative potential	No data available.
<b>12.4. Mobility in soil</b>	
<b>Magnesium Oxide (1309-48-4)</b>	
Surface tension	No data available in the literature
Ecology - soil	No data available.
<b>calcium oxide (1305-78-8)</b>	
Surface tension	No data available in the literature
Ecology - soil	No data available.
<b>crystalobalite (14464-46-1)</b>	
Ecology - soil	No data available.
<b>12.5. Other adverse effects</b>	
No additional information available	
<b>SECTION 13: Disposal considerations</b>	
<b>13.1. Disposal methods</b>	
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.	
<b>SECTION 14: Transport information</b>	
In accordance with DOT / TDG / IMDG / IATA	
<b>Department of Transportation (DOT)</b>	
In accordance with DOT	
Not regulated	
<b>Transportation of Dangerous Goods</b>	
Not regulated	
<b>Transport by sea</b>	
Not regulated	
<b>Air transport</b>	
Not regulated	

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### 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

#### 15.2. International regulations

##### CANADA

##### Magnesium Oxide (1309-48-4)

Listed on the Canadian DSL (Domestic Substances List)

##### calcium oxide (1305-78-8)

Listed on the Canadian DSL (Domestic Substances List)

##### crystalite (14464-46-1)

Listed on the Canadian DSL (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

##### DOL-Mix-R50+ (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 <a href="http://WWW.P65Warnings.ca.gov">WWW.P65Warnings.ca.gov</a>
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##### crystalite (14464-46-1)

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		

##### 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
calcium oxide (1305-78-8)	U.S. - New Jersey - Right to Know Hazardous Substance List
Cristobalite (14464-46-1)	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
Quartz (14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

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Revision date

: 11/4/2024

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

H314	Causes severe skin burns and eye damage
H350	May cause cancer

Safety Data Sheet (SDS), USA

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