

# 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: 5/21/2024 Supersedes: 3/2/2021

# **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : Permanente Mortar

CAS-No. : Mixture
Product code : 7285
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
T 412-494-4491

SDS@RescoProducts.com - 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 2

Serious eye damage/eye irritation Category 2B

Carcinogenicity Category 1A

H315

Causes skin irritation

Causes eye irritation

Causes eye irritation

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)

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.

## 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	≥ 95	Not classified
Sodium Silicate Dry	CAS-No.: 1344-09-8	1 – 5	Not classified
quartz	CAS-No.: 14808-60-7	0.1 - 0.5	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

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 : Danger of serious damage to health by prolonged exposure through inhalation.

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 : 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 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.

# 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

## **Permanente Mortar (Mixture)**

No additional information available

## Magnesium Oxide (1309-48-4)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 10 mg/m³ inhalable dust

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Magnesium Oxide (1309-48-4)	
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	10 mg/m³ respirable dust
quartz (14808-60-7)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
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.
Sodium Silicate Dry (1344-09-8)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	· Provide adequate ventilation to minimize dust concentrations

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

#### 8.3. 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:

In case of insufficient ventilation, wear suitable respiratory equipment

#### 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 Appearance Granualar Mixture. Color light brown Odor slight Earthy odor Odor threshold No data available > 10 pН

pH solution concentration 10 % > 2000 °F Melting point No data available Freezing point Boiling point No data available No data available Flash point 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 No data available Solubility 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 No data available No data available

## 9.2. Other information

Oxidizing properties

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
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, hazardous	s decomposition products should not be produced.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity (oral) : Acute toxicity (dermal) :	Not classified Not classified
Acute toxicity (definal)  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)
Sodium Silicate Dry (1344-09-8)	
LD50 oral rat	> 2000 mg/kg (Rat, Oral)
Skin corrosion/irritation :	Causes skin irritation. pH: > 10
Magnesium Oxide (1309-48-4)	
pH	11 (10 %)
quartz (14808-60-7)	
рН	6 – 7
Sodium Silicate Dry (1344-09-8)	
рН	11 – 13
Serious eye damage/irritation :	Causes eye irritation. pH: > 10
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
quartz (14808-60-7)	
pH	6-7
Sodium Silicate Dry (1344-09-8)	
pH	11 – 13
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity : Carcinogenicity :	Not classified May cause cancer (Inhalation).
quartz (14808-60-7)	may oddoo danoor (iiiiaiatiori).
IARC group	1 - Carcinogenic to humans
Reproductive toxicity :	Not classified
STOT-single exposure : STOT-repeated exposure :	Not classified Not classified

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	Not classified Not Applicable	
Magnesium Oxide (1309-48-4)		
Viscosity, kinematic	Not applicable (solid)	
	Danger of serious damage to health by prolonged exposure through inhalation.	
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.	
SECTION 12: Ecological information		
12.1. Toxicity		
Sodium Silicate Dry (1344-09-8)		
LC50 - Fish [1]	210 mg/l (96 h, Brachydanio rerio, Pure substance)	
EC50 - Crustacea [1]	216 mg/l (96 h, Daphnia magna, Pure substance)	
12.2. Persistence and degradability		
Permanente Mortar (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	
quartz (14808-60-7)		
Persistence and degradability	Not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
Sodium Silicate Dry (1344-09-8)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	
12.3. Bioaccumulative potential		
Permanente Mortar (Mixture)	Martinetal Polyand	
Bioaccumulative potential  Magnesium Oxide (1309-48-4)	Not established.	
Bioaccumulative potential	No bioaccumulation data available.	
quartz (14808-60-7)		
Bioaccumulative potential  Sodium Silicate Dry (1344-09-8)	No data available.	
Bioaccumulative potential	No bioaccumulation data available.	
12.4. Mobility in soil	The bloadeamatation data available.	
Magnesium Oxide (1309-48-4)		
Surface tension	No data available in the literature	
Ecology - soil	No data available.	
Sodium Silicate Dry (1344-09-8) Ecology - soil	No (test) data on mobility of the component(s) available.	
12.5. Other adverse effects	The floory data of mounity of the component(s) available.	
	None known	

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Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

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

# **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)

## Sodium Silicate Dry (1344-09-8)

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

#### **Permanente Mortar (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

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		
		- Female	- 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
Quartz (14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List

## **SECTION 16: Other information**

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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.

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