

# 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 98 AF

CAS-No. : Mixture
Product code : 1016
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 H315 Causes skin irritation Serious eye damage/eye irritation Category 2B H320 Causes eye irritation

Specific target organ toxicity – Single exposure, Category 3, H335 May cause respiratory irritation

Respiratory tract irritation

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) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation H320 - Causes eye irritation

H335 - May cause respiratory irritation

Precautionary statements (GHS US) P280 - Wear eye protection, protective gloves, Wear respiratory protection...

### 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

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Name	Product identifier	%	GHS US classification
Magnesium Oxide	CAS-No.: 1309-48-4	≥ 95	Not classified

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 after inhalation : Allow affected person to breathe 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

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First-aid measures after ingestion : Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation : May cause respiratory 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 : In case of fire, all extinguishing media allowed.

# 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.

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 : [In case of inadequate ventilation] wear respiratory protection. Protective gloves. Safety glasses.

Emergency procedures : Avoid contact with skin. Avoid contact with eyes. 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

#### 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

No additional information available

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Hygiene measures : Do not eat, drink or smoke when using this product. Wash skin thoroughly with mild soap and

water.

### 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 acids.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# Permanente 98 AF (Mixture)

No additional information available

# 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

# 8.2. Appropriate engineering controls

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

# 8.3. Individual protection measures/Personal protective equipment

# Hand protection:

Wear protective gloves.

### Eye protection:

Chemical goggles or safety glasses

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### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

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

### 9.1. Information on basic physical and chemical properties

Physical state

Appearance Granular powder. Color Off-white Odor odorless

Odor threshold No data available No data available рΗ Melting point > 2500 °F

Freezing point No data available 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 ≈ 2.9 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 No data available Viscosity, dynamic No data available **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

No additional information available

### 10.2. Chemical stability

No additional information available.

## 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

# 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

# **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)

magnesium oxide (1000 40 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)

pН	11 (10 %)	

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Serious eye damage/irritation	: Causes eye irritation.
Magnesium Oxide (1309-48-4)	
рН	11 (10 %)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Magnesium Oxide (1309-48-4)	
Viscosity, kinematic	Not applicable (solid)

: May cause respiratory irritation.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

Symptoms/effects after inhalation

### 12.2. Persistence and degradability

Magnesium Oxide (1309-48-4)	
Persistence and degradability	Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

### 12.3. Bioaccumulative potential

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Magnesi	um Oxi	ae (1	309-4	18-41

Bioaccumulative potential No bioaccumulation 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.

### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

No additional information available

### **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)

### **EU-Regulations**

No additional information available

**National regulations** 

No additional information available

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15.3. US State regulations	
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

# **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	
H335	May cause respiratory irritation	

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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