

### 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: 7/7/2025 Supersedes: 7/27/2022

### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : Ladlelock 50S Dip

CAS-No. : Mixture Product code : 3064

Other means of identification : Alumina-Silicate Wet Air Set Mortar-Slurry

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

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

#### 1.3. Supplier

RHI Magnesita

One Robinson Plaza, Suite 300

6600 Steubenville Pike Pittsburgh, PA, 15205 United States

T 412-494-4491

Resco SDS.TDS@rhimagnesita.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

Carcinogenicity, Category 1A H350 May cause cancer (After drying or heating, Inhalation).

Full text of H-statements: see section 16

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

#### **GHS US labelling**

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

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

H319 - Causes serious eye irritation.

H350 - May cause cancer (After drying or heating, 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. 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
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions	CAS-No.: 1344-09-8		Skin Irrit. 2, H315 Eye Irrit. 2B, H320
guartz	CAS-No.: 14808-60-7	5 – 10	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 : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects after inhalation : After drying or heating. Danger of serious damage to health by prolonged exposure through

inhalation. May cause cancer by inhalation.

Symptoms/effects after skin contact : Causes skin 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 : 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.

Explosion hazard : Prolonged exposure to fire may cause containers to rupture/explode.

### 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 the 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

Emergency procedures : If spilled, may cause the floor to be slippery.

6.1.2. For emergency responders
Protective equipment

e equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop release.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Plug the leak, cut off the supply.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage.

#### 6.4. Reference to other sections

See Section 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 in original container. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

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

### 8.1. Control parameters

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quartz (14808-60-7)	
<b>USA - ACGIH - Occupational Exposure</b>	Limits
ACGIH® TLV® 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	0.05 mg/m³ respirable dust
Remark (OSHA)	(3) See Table Z-3.
8.2. Appropriate engineering contro	ols
Appropriate engineering controls	· Emergency eve week fountain with clean water. Dust an tear out. Provide adequate ventilation to

Appropriate engineering controls : Emergency eye wash fountain with clean water. Dust on tear out. 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:

After air drying or heating. Dust on 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 : Liquid Appearance : Slurry. Colour : brown Odour : earthy

Odour threshold : No data available pH : > 10
Melting point : > 3000 °F

Freezing point : ≈ 32 °F

Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : Not flammable.

Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Not flammable. Vapour pressure : No data available Relative vapour density at 20°C : No data available

Relative density : ≈ 2

Solubility : Moderately soluble 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 Explosive limits No data available Explosive properties No data available No data available Oxidising properties

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Air Setting.

### 10.2. Chemical stability

Not established.

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10.3. Possibilit	v of hazardous reactions
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Not established.

#### 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 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

### sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)

LD50 oral rat > 2000 mg/kg (Rat, Oral)

Skin corrosion/irritation : Causes skin irritation.

pH: > 10

#### sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)

oH | 11 – 13

### quartz (14808-60-7)

H 6-7

Serious eye damage/irritation : Causes eye irritation.

pH: > 10

### sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)

pH 11 – 13

### quartz (14808-60-7)

pH 6-7

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : May cause cancer (After drying or heating, Inhalation).

### quartz (14808-60-7)

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 : Not Applicable

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects after inhalation : After drying or heating. Danger of serious damage to health by prolonged exposure through

inhalation. May cause cancer by inhalation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

	sodium silicate.	. alkaline 1.6/2.6	. 35%≤conc≤55%.	, aqueous solutions	(1344-09-8)
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LC50 - Fish [1]	210 mg/l (96 h, Brachydanio rerio, Pure substance)
EC50 - Crustacea [1]	216 mg/l (96 h, Daphnia magna, Pure substance)

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12.2. Persistence and degradability			
Ladlelock 50S Dip (Mixture)			
Persistence and degradability	Not established.		
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤	sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)		
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
BOD (% of 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		
12.3. Bioaccumulative potential			
Ladlelock 50S Dip (Mixture)			
Bioaccumulative potential	Not established.		
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤55%, aqueous solutions (1344-09-8)			
Bioaccumulative potential	No bioaccumulation data available.		
quartz (14808-60-7)			
Bioaccumulative potential	No data available.		
12.4. Mobility in soil			
sodium silicate, alkaline 1.6/2.6, 35%≤conc≤	55%, aqueous solutions (1344-09-8)		
Ecology - soil	No data available.		
12.5. Other adverse effects			
Effect on global warming Other information	: None known		
SECTION 13: Disposal considerations	: Avoid release to the environment.		
13.1. Disposal methods			
Product/Packaging disposal recommendations Ecological waste information SECTION 14: Transport information	Dispose in a safe manner in accordance with local/national regulations.     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

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### 15.2. International regulations

#### CANADA

No additional information available

#### **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

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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
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 the English and other

language versions, the English version shall prevail.

Full text of hazard	Full text of hazard classes and H-statements		
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, RHI Magnesita 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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