

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS) Issue date: 3/15/2015 Revision date: 10/6/2025 Supersedes: 11/23/2022

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Lo Set
CAS-No. : Mixture
Product code : 0972

1.2. Other means of identification

Other means of identification : Alumina-Silicate Speciality

1.3. Recommended use of the chemical and restrictions on use

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

1.4. Supplier's details

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

1.5. Emergency phone number

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

Outside USA & Canada +1 703-741-5970

SECTION 2 Hazard 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 (Inhalation).

Full text of H statements: see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US)

: H315 - Causes skin irritation
H320 - Causes eye irritation

H350 - May cause cancer (Inhalation).

Precautionary statements (GHS US) P280 - Wear eye protection, Dust respirator, 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 or attention. P337+P313 - If eye irritation persists: Get medical advice or attention.

P260 - Do not breathe dust.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

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 Dry	CAS-No.: 1344-09-8	5 – 10	Not classified

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Name	Product identifier	%	GHS US classification
cristobalite	CAS-No.: 14464-46-1	5 – 10	Carc. 1A, H350
quartz	CAS-No.: 14808-60-7	1 – 5	Carc. 1A, H350

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

SECTION 4 First aid measures

4.1. Description of necessary 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.

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/effects, acute and delayed

Potential Adverse human health effects and : Harmful: danger of serious damage to health by prolonged exposure through inhalation.

symptoms Symptoms/effects after inhalation

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 eye irritation.

4.3. Indication of immediate medical attention and special treatment needed, 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

: Not flammable.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions Fight fire with normal precautions from a reasonable distance. Prevent entry to sewers and

public waters.

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

For non-emergency personnel

Emergency procedures : Do not breathe dust. Avoid contact with skin and eyes.

For emergency responders

Equip cleanup crew with proper protection.

Protective equipment **Emergency procedures** Ventilate area. On land, sweep or shovel into suitable containers.

Prevent entry to sewers and public waters. Environmental precautions

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up On land, sweep or shovel into suitable containers. Minimize generation of dust.

See Heading 8, Exposure controls and personal protection

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Do not handle until all safety precautions have been read and understood. Avoid raising dust.

Avoid contact with skin and eyes. Do not breathe dust.

Hygiene measures Wash Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions Store this product in a dry location where it can be protected from the elements.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

cristobalite (14464-46-1)

USA - ACGIH - Occupational Exposure Limits

ACGIH® TLV® TWA 0.025 mg/m3 respirable dust

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cristobalite (14464-46-1)					
USA - OSHA - Occupational Exposure L	USA - OSHA - Occupational Exposure Limits				
OSHA PEL TWA	0.05 mg/m³ respirable dust				
quartz (14808-60-7)					
USA - ACGIH - Occupational Exposure	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 L	imits				
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				

o.z. Appropriate engineering controls

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

8.3. Individual protection measures, such as 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:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Solid

Appearance : Granular mixture.
Color : Gray brown
Odor : earthy

Odor threshold : No data available pH : > 10

pH solution concentration 10 % > 2500 °F Melting point Freezing point No data available No data available Boiling point Flash point 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 - 3

Relative density

Solubility

Partition coefficient n-octanol/water (Log Pow)

Auto-ignition temperature

Decomposition temperature

Viscosity, kinematic

Explosion limits

Particle characteristics

Slightly soluble.

No data available

No data available

No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

Hydraulic setting.

10.2. Chemical stability

Stable under normal conditions of use.

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10.3. Possibility of hazardous reactions					
Not established.					
10.4. Conditions to avoid					
Avoid dust formation.					
	10.5. Incompatible materials				
No additional information available					
10.6. Hazardous decomposition products					
No additional information available					
SECTION 11 Toxicological information					
,	Inhalation.				
11.1. Information on toxicological effects					
Acute toxicity (oral) : Acute toxicity (dermal) :	Not classified Not classified				
	Not classified				
Sodium Silicate Dry (1344-09-8)					
LD50 oral rat	> 2000 mg/kg (Rat, Oral)				
Skin corrosion/irritation :	Causes skin irritation. pH: > 10				
cristobalite (14464-46-1)					
рН	6 – 7				
Sodium Silicate Dry (1344-09-8)					
рН	11 – 13				
quartz (14808-60-7)					
pH	6 – 7				
Serious eye damage/irritation :	Causes eye irritation. pH: > 10				
cristobalite (14464-46-1)					
рН	6 – 7				
Sodium Silicate Dry (1344-09-8)	Sodium Silicate Dry (1344-09-8)				
рН	11 – 13				
quartz (14808-60-7)					
pH	6 – 7				
· · · - · · · · · · · · · · · · · · · ·	Not classified				
	Not classified May cause cancer (Inhalation).				
quartz (14808-60-7)	inay cause cancer (illinaration).				
IARC group	1 - Carcinogenic to humans				
Reproductive toxicity :	Not classified				
STOT-single exposure :	Not classified				
STOT-repeated exposure :	Not classified				
Aspiration hazard : Potential Adverse human health effects and :	Not classified				
Potential Adverse numan nealth effects and : symptoms	Harmful: danger of serious damage to health by prolonged exposure through inhalation.				
, ,	Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.				
	Causes skin irritation.				
Symptoms/effects after eye contact :	Causes eye irritation.				

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SECTION 12 Ecological information				
12.1. Ecotoxicity				
Hazardous to the aquatic environment, short–term : (acute)	Not classified			
datacy Hazardous to the aquatic environment, long–term : Not classified chronic)				
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				
Lo Set (Mixture)				
Persistence and degradability	Not established.			
cristobalite (14464-46-1)				
Persistence and degradability	Mineral, Not applicable.			
Chemical oxygen demand (COD)	Not applicable			
ThOD	Not applicable			
BOD (% of 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			
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				
Lo Set (Mixture)				
Bioaccumulative potential	Not established.			
cristobalite (14464-46-1)				
Bioaccumulative potential	No data available.			
Sodium Silicate Dry (1344-09-8)				
Bioaccumulative potential	No bioaccumulation data available.			
quartz (14808-60-7)				
Bioaccumulative potential	No data available.			
12.4. Mobility in soil				
cristobalite (14464-46-1)				
Ecology - soil	No data available.			
Sodium Silicate Dry (1344-09-8)				
Ecology - soil	No (test) data on mobility of the component(s) available.			

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12.5. Other adverse effects

Ozone : Not classified Effect on the global warming : None known Fluorinated greenhouse gases : No

Other information : No other effects known.

SECTION 13 Disposal considerations

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

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. 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

cristobalite (14464-46-1)

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. State regulations

Lo Set (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

cristobalite (14464-46-1)

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		

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	
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	

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SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

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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 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.