

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/23/2022 Revision date: 11/23/2022 Supersedes: 10/8/2020

SECTION 1: Identification

1.1. Identification

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

Other means of identification : Alumina-Silicate 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
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) : 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/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

P260 - Do not breathe dust.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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
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

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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 : Wash with plenty of soap and water. Wash contaminated clothing 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 : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure

through inhalation.
: Causes skin irritation.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes 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 : 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 : Exercise caution when fighting any chemical fire.

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 : Do not breathe dust.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

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

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 : 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 any incompatibilities

Storage conditions : Store in a dry place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lo Set (Mixture)

No additional information available

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cristobalite (14464-46-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.025 mg/m³ respirable dust	
USA - OSHA - Occupational Exposure I	imits	
OSHA PEL (TWA) [1]	0.05 mg/m³ respirable dust	
Sodium Silicate Dry (1344-09-8)		
No additional information available		
quartz (14808-60-7)		
USA - ACGIH - Occupational Exposure	Limits	
ACGIH OEL TWA 0.025 mg/m³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TL Adopted Value; Respirable fraction)		
USA - OSHA - Occupational Exposure I	imits	
Local name Silica, crystalline quartz, respirable dust		
OSHA PEL (TWA) [1] 0.05 mg/m³ respirable dust		
Remark (OSHA)	(3) See Table Z-3.	
8.2. Appropriate engineering control	als	
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:

Wear appropriate mask

Other information:

Vapor pressure

Relative vapor density at 20 °C

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 : Granular mixture.
Color : Gray brown
Odor : earthy

Odor threshold No data available рΗ No data available Melting point > 2000 °F Not applicable Freezing point Boiling point Not applicable Critical temperature Not applicable Flash point Not applicable Relative evaporation rate (butyl acetate=1) No data available Flammability (solid, gas) Non flammable.

Relative density : 2-3

Solubility : Slightly soluble.
Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : Not applicable

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No data available

No data available

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Decomposition temperature : No data available Viscosity, kinematic : Not Applicable 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

None known.

10.2. Chemical stability

Stable under normal conditions of use.

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

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Sodium Silicate Dry (1344-09-8)

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

Skin corrosion/irritation : Causes skin irritation.

cristobalite (14464-46-1)

pH 6-7

Sodium Silicate Dry (1344-09-8)

DH 11 – 13

quartz (14808-60-7)

pH 6-7

Serious eye damage/irritation : Causes eye irritation.

cristobalite (14464-46-1)

pH 6-7

Sodium Silicate Dry (1344-09-8)

pH 11 – 13

quartz (14808-60-7)

pH 6-7

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

Carcinogenicity : May cause cancer (Inhalation).

quartz (14808-60-7)

IARC group 1 - Carcinogenic to humans

Reproductive toxicity : Not classified STOT-single exposure : Not classified

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STOT-repeated exposure : Not classified Aspiration hazard : Not classified Viscosity, kinematic Not Applicable Likely routes of exposure Inhalation.

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

symptoms

Symptoms/effects after inhalation May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure

through inhalation. Causes skin irritation.

Not established.

Symptoms/effects after skin contact Symptoms/effects after eye contact Causes eye irritation.

SEC	TION 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

Lo Set (Mixture)

Persistence and degradability

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)

Not established. Bioaccumulative potential

cristobalite (14464-46-1)

No data available. Bioaccumulative potential

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)

L	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

Effect on the global warming : None known

Other information : No other effects known.

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

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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

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)

No

15.3. US State regulations

Lo Set (Mixture)

Yes

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	, í	` '
		- Female	- Male		

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	

SECTION 16: Other information

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No

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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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