

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 2/26/2019 Revision date: 9/11/2024 Supersedes: 9/13/2021

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Rescoweld FS
CAS-No. : Mixture
Product code : 7570

Other means of identification : Silica Weld Powder

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) : Danger

Hazard statements (GHS US) : H350 - May cause cancer (Inhalation)

H320 - Causes eye irritation
H315 - Causes skin irritation
P260 - Do not breathe dust.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P280 - Wear Respiratory Protection, protective gloves, eye protection, In case of insufficient

ventilation, wear suitable respiratory equipment.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Dust may form explosive mixture in air.

2.4. Unknown acute toxicity (GHS US)

No additional information available

Precautionary statements (GHS US)

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Silicon Metal Powder	CAS-No.: 7440-21-3	10 – 20	Not classified
cristobalite	CAS-No.: 14464-46-1	5 – 10	Carc. 1A, H350
quartz	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.

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.

First-aid measures after ingestion Rinse mouth. Do not induce vomiting.

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

Potential Adverse human health effects and

symptoms Symptoms/effects after inhalation 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.

Symptoms/effects after skin contact Contact during a long period may cause slight 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 : Dry powder. Dry sand. Carbon dioxide (CO2).

5.2. Specific hazards arising from the chemical

Fire hazard Dry Silicon Metal in the form of lumps or granules (Bottom Screen >200 mesh) is not

combustible.

Explosion hazard Dust cloud can be ignited by a spark.

5.3. Special protective equipment and precautions for fire-fighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

: Avoid contact with skin and eyes. General measures

6.1.1. For non-emergency personnel

Protective equipment : Do not breathe dust.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required.

Emergency procedures Ventilate area.

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spillage. Prevent dust cloud formation.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Avoid raising powdered material due to explosion hazard. Avoid contact with skin and eyes.

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

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. Store in a well-

ventilated place.

Incompatible materials Strong acids, bases. water.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Rescoweld FS (Mixture)

No additional information available

cristobalite (14464-46-1)

USA - ACGIH - Occupational Exposure Limits

ACGIH OEL TWA 0.025 mg/m3 respirable dust

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cristobalite (14464-46-1)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	0.05 mg/m³ respirable dust
Silicon Metal Powder (7440-21-3)	
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; 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.

8.2. Appropriate engineering controls

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 inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granular powder.

Color : Gray
Odor : None

Odor threshold : No data available

pH : No data available Melting point : No 1100 °F

Freezing point : No data available
Boiling point : No data available
Flash point : No data available
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 : ≈ 1.3 Solubility : Insoluble.

Partition coefficient n-octanol/water (Log Pow)

Auto-ignition temperature

Decomposition temperature

Viscosity, kinematic

Viscosity, dynamic

Explosion limits

No data available

No data available

No data available

No data available

Explosive properties : Product not explosive, although dusts may form explosive mixtures with air.

Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None known.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Prolonged contact with water may release hydrogen. Reactions with acids and alkalis my release hazardous gases, including hydrogen.

10.4. Conditions to avoid

Avoid dust formation. Product not explosive, although dusts may form explosive mixtures with air.

10.5. Incompatible materials

Acids. Oxidizing agent. Strong bases. Water:

10.6. Hazardous decomposition products

May release flammable gases.

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
Skin corrosion/irritation : Causes skin irritation.

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pH 6-7

quartz (14808-60-7)

pH 6-7

Serious eye damage/irritation : Causes eye irritation.

cristobalite (14464-46-1)

pH 6-7

quartz (14808-60-7)

bH 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 STOT-repeated exposure : Not classified Aspiration hazard : Not classified Viscosity, kinematic : No data available

Potential Adverse human health effects and

symptoms

: 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.

Symptoms/effects after skin contact : Contact during a long period may cause slight irritation.

Symptoms/effects after eye contact : Causes eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

Symptoms/effects after inhalation

12.2. Persistence and degradability

cristobalite (14464-46-1)

cristopalite (14404-40-1)	
Persistence and degradability	Mineral. Not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

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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

Bioaccumulative potential No 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.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

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. 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)

Silicon Metal Powder (7440-21-3)

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

Rescoweld FS (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

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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
Silicon Metal Powder (7440-21-3)	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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Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail. Other information

Full text of H-phra	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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