

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
 Use of the substance/mixture : Industrial

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 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. 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
 Precautionary statements (GHS US) : 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 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 not contributing to the classification : Dust may form explosive mixture in air.

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 |
|----------------------|----------------------|---------|-----------------------|
| Silicon Metal Powder | (CAS-No.) 7440-21-3 | 10 - 20 | Not classified |
| crystalite | (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

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.

Rescoweld FS

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

- 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)

- Symptoms/effects after inhalation : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation.
Symptoms/effects after skin contact : Contact during a long period may cause slight irritation.
Symptoms/effects after eye contact : Causes eye irritation.
Symptoms/effects after ingestion : No data available.

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

- General measures : Avoid contact with skin and eyes.

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.
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 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

| cristobalite (14464-46-1) | | |
|----------------------------------|-------------------------------------|--|
| ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ respirable dust |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 0.05 mg/m ³ respirable dust |
| Silicon Metal Powder (7440-21-3) | | |
| Not applicable | | |
| quartz (14808-60-7) | | |
| ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ (Silica-Crystalline Quartz; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value; Respirable fraction) |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 0.05 mg/m ³ respirable dust |
| OSHA | 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

Hand protection:

Wear protective gloves.

Eye protection:

Safety glasses

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Rescoweld FS

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 | : > 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) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : ≈ 1.3 |
| Solubility | : Insoluble. |
| 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 | : 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.

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 may 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. |
| Serious eye damage/irritation | : Causes eye irritation. |
| 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 |
| Symptoms/effects after inhalation | : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. |

Rescoweld FS

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/effects after skin contact : Contact during a long period may cause slight irritation.
Symptoms/effects after eye contact : Causes eye irritation.
Symptoms/effects after ingestion : No data available.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. 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 |

| 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

| cristobalite (14464-46-1) | |
|---------------------------|--------------------|
| 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

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 listed, or excluded from listing, 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) | |

Rescoweld FS

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

crystalite (14464-46-1)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| Yes | No | No | No | | |

quartz (14808-60-7)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| 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

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 07/15/2020

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 |

SDS US (GHS HazCom 2012)

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