



1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **RUSSTECH CSF**
- Product Use: Condensed Silica Fume Pozzolan for Concrete
- Restriction on Use: Intended for industrial and professional users
- CAS#: 69012-64-2

Company Information

- RussTech, Inc.
11208 Decimal Drive
Louisville, KY 40299
502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (serviced 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture: Not classified as hazardous per 2012 OSHA Hazard Classification Standard 29 CFR Part 1910.1200

Label elements: This material does not require a hazard warning label in accordance with GHS criteria

Pictogram: Not applicable

Signal Word: Not applicable

Hazard statement(s): Not applicable

Precautionary statement(s): Not applicable

Hazards not otherwise classified: Not applicable

General: As a part of good industrial hygiene and safety practices, use skin and eye protection while using this product.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

This product does not contain any components classified as hazardous under 29 CFR 1910.1200

4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.

Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. If irritation persists, seek medical attention.

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Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire

Unsuitable extinguishing media: None are known

Specific hazards in case of fire: None are known

Special protective equipment required for firefighting: None are known

Additional information for firefighters: None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc.

Material containment and clean up:

- Vacuum up spilled material. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid generated dusts

Information about protection against explosions and fires: No special measures required

Information about safe storage: Keep in closed containers. Keep dry.

Shelf Life: Not applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No occupational exposure limits have been established for this material.

Components with limit values that require monitoring at the workplace: None

PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of work day

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Powder
- Color: Light to medium gray
- Odor: None
- Odor Threshold: Not available

Physical properties:

- pH value (@70°F): 6.00 – 9.00

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- Specific gravity (@70°F): 2.20 – 2.50
- Bulk density: Approx. 8 – 48 lb./ft³ or 128-769 kg/m³
- Boiling point: Not available
- Freezing point/Melting point: Not available
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- Solubility in / Miscibility with water: Insoluble
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self-igniting
- Flash point: Material is non-flammable
- Lower / Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of explosion: material does not present an explosion hazard

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact

Possibility of hazardous reactions: Silica fume is soluble in hydrofluoric acid and can form toxic gas (SiF₄)

Incompatible materials to avoid: Hydrofluoric Acid (HF)

Hazardous decomposition products: Heating at temperatures above 930°F / 500°C for prolonged time periods will convert amorphous silica to crystalline phases.

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

Acute toxicity:

- Eyes: may cause mechanical irritation and dryness
- Dermal: may cause mechanical irritation on exposed skin
- Inhalation: airborne dust may result in respiratory irritation
- Ingestion: may irritate and dehydrate throat and mouth

Chronic toxicity:

Silica Fume may contain trace amounts (<0.05%) of crystalline silica (quartz), which has been shown to cause silicosis and has been identified by IARC and NTP as a possible human carcinogen. Heating at temperatures above 930°F / 500°C for prolonged time periods will convert amorphous silica to crystalline phases.

12. ECOLOGICAL INFORMATION

No adverse effects are expected.

Ecotoxicity: product is unlikely harmful to aquatic life

Persistence and degradability: product expected to degrade in one month or less

Bioaccumulative potential: there is no evidence to suggest bioaccumulation will occur

Mobility in soil: accidental spillage may lead to penetration in the soil and groundwater, however; there is no evidence that this would cause adverse ecological effects

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13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Material is not regulated for transport

15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Not applicable
- Sara 313: Not applicable
- TSCA: All components are listed or exempt
- California Prop 65: This product may contain trace amounts <0.05% of crystalline silica, a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech' s knowledge, or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.