

**Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Colloidal Silica  
Part Number: CS.05-(all sizes)  
Manufacturer: Sturbridge Metallurgical Services Inc.  
City, State, Zip: Sturbridge MA 01566  
Phone Number: 508-347-5288  
Emergency Phone: **CHEMTREC 1-800-424-9300**

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**Section 2: Hazard(s) Identification**

**Classification of the substance or mixture**

**GHS Classification**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label Elements**

**GHS Labeling**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Other hazards**

The product does not have any harmful effects if it is used and handled as specified

**Signal word:** None (Non Hazardous)

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**Section 3: Composition/Information on Ingredients**

**Non-Hazardous Ingredients**

<b>Component</b>	<b>CAS NUMBER</b>	<b>Concentration</b>
Silica, Synthetic Amorphous	7631-86-9	35-45%
Water	7732-18-5	40-50%
Propate-1,2-diol	57-55-6	15-25%

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**Section 4: First-Aid Measures**

**General Advice:**

Remove soiled/soaked clothing immediately. If you do not feel well, seek medical attention (show the label when possible).

**Inhalation:**

If inhaled, move person to fresh air. If they are having difficulty breathing, give oxygen (if available). Consult a doctor if symptoms continue or get worse.

**Skin Contact:**

In case of contact with skin, wash off immediately with soap and plenty of water. Remove all clothing including shoes. Consult a doctor if you develop skin irritation.

**Eye Contact:**

Rinse the affected eye immediately with plenty of water while keeping the unaffected eye well protected. Consult a doctor if you develop eye irritation.

**Ingestion:**

Rinse mouth. Seek medical attention if symptoms occur.

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**Section 5: Fire-Fighting Measures**

**Fire Extinguishing Media:** Water spray jet; foam; dry powder; carbon dioxide; product itself is non-combustible; fire extinguishing method of surrounding areas must be discussed.

**Special hazards arising from the substance or mixture**

None known

**Advice for fire-fighters**

Closed - full protective clothing (coat and pants) including helmet. Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**Section 6: Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

Refer to Section 8: Exposure Controls/Personal Protection

**Environmental Precautions**

Do not allow entry to drains, waterways, or soil

**Cleanup and Containment Methods and Materials**

Pick up with inert absorbent material. Keep in suitable, closed containers for disposal

Dispose of absorbed material in accordance with local regulations.

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**Section 7: Handling and Storage**

**Precautions for safe handling:** Provide good ventilation of working area (local exhaust ventilation if necessary)

Wear respiratory protection when spraying. Observe the general rules of industrial fire protection

**Condition for safe storage:** Keep only in unopened original container. Use polyolefin containers. Do not use steel containers.

Keep container tightly closed and dry in a cool, well-ventilated place. Protect against frost. The product after freezing is no longer usable.

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**Section 8: Exposure Controls/Personal Protection Exposure Limits**

Component	CAS No.	Control Parameters	Basis
Silica, Synthetic Amorphous	7631-86-9	TWA: 20 Million particles/cubic foot TWA: 80 mg/m <sup>3</sup> / %SiO <sub>2</sub> TWA: 6mg/m <sup>3</sup>	OSHA Z3 OSHA Z3 NIOSH REL

**Engineering controls:** Provide good ventilation of working area (local exhaust ventilation if necessary)

**Respiratory protection:** Use respiratory protection in case of insufficient exhaust.

**Hand Protection:** Breath through time: >10 min.

Glove thickness: > 0.4 mm

For short-term exposure (splash protection): Nitrile rubber gloves

Remarks: These types of protective gloves are offered by various manufacturers. Please note the manufacturers' detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

**Eye protection:** Wear safety glasses or goggles.

**Skin protection:** Wear protective clothing.

**Environmental exposure controls:** Do not allow entry to drains, water courses or soil

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## Section 9: Physical and Chemical Properties

### Appearance

**Form:** Liquid

**Color:** Blue

**Odor:** Odorless

### Safety data

**Upper/lower flammability** Not determined

**Vapor pressure:** Not determined

**Vapor density** Not determined

**pH** approx. 9-10.5 @ 68°F (20°C)

**Relative density** approx. 1.3 g/cm<sup>3</sup> @ 68°F (20°C)

**Freezing point** approx. 32°F (0°C)

**Solubility(ies)** Miscible in all proportions

**Boiling point/Boiling range** approx. 212°F (100°C)

**Flash point** Water-based material containing no combustible components. Compatible with extinguishing agents.

**Evaporation rate** Not determined

**Flammability (solid, gas)** Not determined

**Partition coefficient:** Not determined

**n-octanol/water**

**Auto-ignition temperature** Not determined

**Decomposition temperature Viscosity** Not determined

**No further relevant information available.**

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## Section 10: Stability and Reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical Stability

No decomposition if stored and applied as directed.

**Hazardous Reactions**

No dangerous reaction know under conditions of normal use.

**Conditions to Avoid**

Protect from freezing or frost.

**Incompatible Materials**

No further relevant information available.

**Hazardous Decomposition Products**

No decomposition if stored and applied as directed.

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**Section 11: Toxicological Information:**

**Data for Silica, Amorphous (7631-86-9)**

Acute oral toxicity: LD50> 40,000 mg/kg (rat)  
Acute inhalation toxicity: LC50> 2.2mg/l (rat)  
Acute dermal toxicity: LD50> 5,000 mg/kg (rat)  
Skin irritation: Prolonged and/or repeated skin contact may cause irritation  
Eye irritation: Short time, reversible irritation

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**Section 12: Ecological Information**

**Toxicity**

Aquatic toxicity: No further relevant information available

**Persistence and degradability:**

**Biodegradability:** This product consist of mainly inorganic substances for which biodegradation values are not applicable.

**Bioaccumulative potential:** No further relevant information available

**Mobility in soil:** No further relevant information available

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**Section 13: Disposal Considerations**

**Waste treatment methods:**

**Additional information:** Neutralize. Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent authorities.

**Contaminated packaging:** Contaminated packaging should be emptied as far as possible and taken to approved waste handling site for disposal.

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**Section 14: Transportation Information**

**DOT**                **Not dangerous goods**  
**IATA**              **Not dangerous goods**  
**IMDG**             **Not dangerous goods**  
**TDG**               **Not dangerous goods**

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**Section 15: Regulatory Information**

**United States**            The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).

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**Section 16: Other Information**

**Further Information:**    Observe national and local legal requirements.

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