

**MATERIAL SAFETY DATA SHEET**



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**SECTION I – MATERIAL IDENTIFICATION**

Trade/Material Name: **Colloidal\_Silica**

**SECTION II – COMPOSITION/INFORMATION ON INGREDIENT**

**Mixture of: Component CAS-No.**

Silica 7631-86-9

Deionized Water 7732-18-5

n/a

OES (UK)=6 mg/m<sup>3</sup> total inhalable, 2.4 mg/m<sup>3</sup> respirable dust.

**Hazard classification Notes**

Water, abrasive, and propylene glycol

TRGS 900 (Germany)=4 mg/m<sup>3</sup> inhalable dust.

TLV(Australia)=10 mg/m<sup>3</sup> total dust containing no asbestos and <1% crystalline silica.

(AS DRY DUST)

TLV(US)=10 mg/m<sup>3</sup> total dust for particles not otherwise classified.

PEL(US)=not applicable

**SECTION 3. HAZARDS IDENTIFICATION**

**Emergency Overview:**

**Potential Health Effects**

**Eyes:** Spray mist or dry dust may cause congestion, coughing, granuloma in lungs.

**Skin:** Slightly irritating, high concentrations can cause conjunctivitis, not corrosive.

**Ingestion:** Very low toxicity

**Inhalation:** Non-irritating to rabbit skin and non-sensitizing to guinea pig skin. Very low toxicity by absorption.

Not listed as a carcinogen by IARC, NTP, or OSHA. May cause slight irritation to skin and eyes.

**SECTION 4. FIRST AID MEASURES**

**Eye Contact:** In case of contact with eyes, rinse immediately with plenty of water for 15 minutes. If irritation persists, consult a physician.

**Skin Contact:** Wash affected area with a waterless hand cleaner and/or soap and water. If irritation persists, consult a physician.

**Ingestion:** If material is swallowed, get immediate medical attention or advice. Give one to two glasses of water or milk. Never give anything by mouth to a victim who is unconscious or is having convulsions.

**Inhalation:** If inhaled, immediately remove the affected person to fresh air. Seek medical attention.

**SECTION 5. FIRE FIGHTING MEASURES**

**Flash Point:** n/a

**Method Used:** n/a

**Upper Flammable Limit (UFL):** n/a

**Lower Flammable Limit (LFL):** n/a

**Auto Ignition:** n/a

**Flammability Classification:** Non Flammable

**Rate of Burning:** n/a



**General Fire Hazards:** Product is non-combustible

**Hazardous Combustion Products:** Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO),

**Extinguishing Media:** Dry chemical, foam, carbon dioxide (CO<sub>2</sub>), water fog

**Fire Fighting Equipment / Instructions:** Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.  
Firefighters should avoid inhaling any combustion products.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Containment Procedures:** Stop the flow of material, if this is without risk

Wear appropriate protective equipment and clothing during clean-up. Absorb spill with inert material. Shovel  
**Clean-Up Procedures:** material into appropriate container for disposal.

**Evacuation Procedures:** Isolate area. Keep unnecessary personnel away.

**Special Procedures:** No information available for the product.

**SECTION 7. HANDLING AND STORAGE**

Avoid contact with skin and eyes. Observe good industrial hygiene practices and wash thoroughly after  
**Handling Procedures:** handling.

**Technical Measures:** Work practice should minimize contact.

**Technical Precautions:** Local exhaust is recommended.

**Storage Procedures:** Store in tightly closed original container in a cool, well-ventilated place away from incompatible materials. Keep from freezing.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Ventilation should effectively remove and prevent buildup of any vapor or mist generated from the handling of  
**Engineering Controls:** this product.

**Personal Protective Equipment (PPE)**

**Eyes/Face:** Wear safety glasses, chemical goggles, or, a full face shield.

**Skin:** Use impervious gloves. Use of impervious apron and boots are recommended.

**Respiratory:** If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH / MSHA respiratory protection must be provided.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Blue

**Boiling Point:** 212°F (100°C)

**Odor:** None

**Flash Point:** n/a

**pH:** ~10

**Solubility (H<sub>2</sub>O):** Dispersible

**Physical State:** Liquid

**Viscosity:** Low

**Melting Point:** 32°F (0°C)



**SECTION 10. STABILITY AND REACTIVITY**

**Chemical Stability:** This is a stable material.

**Conditions to Avoid:** None specific

**Incompatibility:** None specific

**Hazardous Decomposition Products:** None specific

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Inhalation:** Not relevant at normal room temperatures.

**Skin Contact:** Prolonged contact may cause redness and irritation.

**Eye Contact:** May cause temporary eye irritation.

**Ingestion:** No harmful effects expected in amounts likely to be ingested by accident.

**SECTION 12. ECOLOGICAL INFORMATION**

**Mobility:** This product is water soluble and may spread in water systems.

**Degradability:** The degradability of the product has not been stated.

**Ecotoxicity:** The product is not expected to be hazardous to the environment.

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**Degradability:** The degradability of the product has not been stated.

**SECTION 13. DISPOSAL CONSIDERATION**

**US EPA Waste Number and Descriptions**

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable

**General Product Information:** definitions of hazardous wastes.

**Component Waste Numbers:** No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions**

**Waste Material:** Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

**Contaminated Packaging:** Dispose of contaminated packaging as residue.