MSDS Number: CSR

Revision Date: 6-1-16

1. PRODUCT AND COMPANY IDENTIFICATION

Company Identification

DS Industries
711 Jones Street
Lewisville, Texas 75057

EMERGENCY TELEPHONE NUMBER:
For emergency involving spill, leak, fire, exposure, or accident call CHEMTREC (800) 424-9300, day or night

Product Identification

Product Name: Rigidizer
Common Name(s): Colloidal Silica, Colloidal Silica Rigidizer

2. HAZARDS IDENTIFICATION

Route(s) of Entry: Inhalation.

POTENTIAL HEALTH EFFECTS:

Acute Inhalation: If exposure limits are exceeded, the respiratory tract may become irritated. May cause shortness of breath, coughing, and/or chest tightness due to temporarily physically overloading the lungs.

Chronic Inhalation: May aggravate existing respiratory conditions. May cause dryness of mucous membranes of the respiratory tract.

Acute Skin Contact: May cause irritation and dryness.

Chronic Skin Contact: Repeated exposure may cause dermatitis due to drying of the skin.

Eye Contact: May cause irritation, redness and tearing.

Ingestion: No known health effects.

Symptoms Of Overexposure: Coughing, shortness of breath or irritation of the respiratory tract. Dry, chapped or irritated skin. Irritated or tearing eyes.

Medical Conditions Aggravated By Exposure: Skin and respiratory conditions, such as dermatitis and asthma.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME:
Fumed Amorphous Silica

CAS#
112945-52-5

CONCENTRATION (%)
100

4. FIRST AID MEASURES

First Aid For Eyes: Flush adequately with water to remove particles. If discomfort persists, seek medical advice.

First Aid For Skin: Wash with soap and water. Apply moisturizing cream to replenish moisture in the skin if necessary.

First Aid For Inhalation: Remove to fresh air if effects occur. If effects persists, seek medical advice.

First Aid For Ingestion: No specific information.

5. FIRE FIGHTING MEASURES

Flash Point: Greater than 535°F (COC, ASTM D-92).

Extinguishing Media: Water, dry chemical, halon or foam.

Special Fire Fighting Procedures: No specific information.

6. ACCIDENTAL RELEASE MEASURES

Spill Or Leak Procedures: Sweep and shovel or use properly grounded vacuum equipment. Do so in a manner that minimizes airborne dust.

7. HANDLING AND STORAGE

Storage Temperature (min./max.): 0°F (-17°C)/100°F (38°C)

Storage: Keep dry.

Handling Precautions: Avoid handling that will unnecessarily generate airborne dust. Properly ground all material handling equipment to prevent static discharge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection Guidelines: Safety glasses or goggles are recommended, depending on

the expected level of exposure.

Skin Protection Guidelines: Areas expected to have repeated exposure, such as hands, may need to be protected by an impervious material to prevent dryness. Barrier creams can be used effectively.

Respiratory/Ventilation Guidelines: Work environments should be maintained below applicable exposure level through the use of engineering controls, such as dilution and exhaust ventilation. If this is not feasible, use a NIOSH approved dust mask/respirator for nuisance dust.

Additional Protective Measures: Practice good industrial hygiene by washing with soap and water after each use. Apply moisturizing cream to replenish moisture if necessary. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

Occupational Exposure Limits: This product should be treated as a nuisance dust. Refer to OSHA's Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Powder
Color: White
Odor: Odorless
Boiling Point: No Data
Melting Point/Freeze Point: No Data
Ph: No Data
Solubility In Water: Insoluble
Specific Gravity: 2.2
Bulk Density: 0.33 Pounds/Gallon
Vapor Pressure: Not Applicable
Vapor Density: Not Applicable
% Volatile By Weight: 0.0 (0.0 G/L)

10. STABILITY AND REACTIVITY

Stability: Material is stable.
Hazardous Decomposition: Carbon monoxide; carbon dioxide
Hazardous Polymerization: Will Not Occur.
Incompatibilities: A chemical reaction is possible with strong bases or hydrofluoric acid.

11. TOXICOLOGICAL INFORMATION

Oral: LD_{50} >5000 mg/kg (rats)
Inhalation: LD_{50} > 2.08 mg/L 4hr.
Dermal: LD_{50} >5000 mg/kg (rabbits)

Data from chronic inhalation of treated and untreated silicas are currently under review.

CARCINOGENICITY:

NTP: No.
IARC: No.
OSHA: No.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

12. ECOLOGICAL INFORMATION

No information.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: This material is determined not to be a hazardous waste as per RCRA standards, either by listing or characteristics. Disposer must comply with all federal, state and local laws. Waste product may be sent to a landfill.

14. TRANSPORT INFORMATION

DOT Non-Bulk
Shipping Name: Not Regulated.
Technical Shipping Name: Not Applicable.
Hazard Class: Not Applicable.
U.N./N.A. Number: Not Applicable.
Packing Group: Not Applicable.

ICAO/IATA
Shipping Name: Not Regulated.
Technical Shipping Name: Not Applicable.
Hazard Class: Not Applicable.
U.N./N.A. Number: Not Applicable.
Packing Group: Not Applicable.

IMDG
Shipping Name: Not Regulated.

Technical Shipping Name: Not Applicable.
Hazard Class: Not Applicable.
U.N./N.A. Number: Not Applicable.
Packing Group: Not Applicable.

15. REGULATORY INFORMATION

OSHA STATUS: Nuisance dust.
TSCA STATUS: All components are listed on TSCA inventory or otherwise comply with TSCA requirements.

Canada WHMIS Classification: Not a WHMIS controlled substance.
CEPA Chemical Inventory Status: All components are listed or are otherwise compliant with CEPA requirements.

SARA TITLE III:
SECTION 313 TOXIC CHEMICALS: None.

STATE REGULATORY INFORMATION:
The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

16. OTHER INFORMATION

Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Individuals should make a determination as to the suitability of the information for their particular purpose(s).