



Herkules Equipment Corporation
 2760 Ridgeway Court
 Walled Lake, MI 48390-1662
 Phone: 248-960-7100
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 www.herkules.us

SAFETY DATA SHEET CA01 CoAgent

SECTION 1 – CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Family Name: CA01 CoAgent
 Chemical Family: Mineral
 Application: Water Treatment
 Manufacturer/Supplier: Herkules Equipment Corporation
 Emergency Phone Number: 1-800-424-9300

SECTION 2 – HAZARD IDENTIFICATION

Hazard Classification: Carcinogenicity (Category 1A)
 Specific Target Organ Toxicity (Repeated Exposure) (Category 1)
 Eye Irritation (Category 2, 2B)
 Skin Irritation (Category 2)

Signal Word: Danger

Hazard Statements: May cause cancer.
 Causes damage to organs through prolonged or repeated exposure.
 Causes skin irritation.
 Causes serious eye irritation.

Hazard Symbols:



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety instructions have been read and understood. Do not breathe dust. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection. Wear protective gloves.

Response: If exposed or concerned: Get medical advice/attention if you feel unwell.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
 If on skin: Wash with plenty of water and soap. Specific treatment (see section 4). If skin irritation occurs, get medical attention. Take off contaminated clothing and wash it before re-use.
 If inhaled: Move person to fresh air and keep comfortable for breathing. Seek medical advice/attention if you feel unwell.

Storage: Store in a well-ventilated place. Keep container tightly closed, and store locked up.

Hazards Not Otherwise

Classified: Exposure may aggravate pre-existing eye, skin or respiratory conditions.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	Percent
Crystalline Silica, quartz	14808-60-7	≤6%
Trade Secret*	Proprietary	≤10%

*The specific identity and/or percentage of composition has been withheld as a trade secret.



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SECTION 4 – FIRST AID MEASURES

General: If exposed or concerned, get medical attention. Get medical advice/attention if you feel unwell.

Inhalation: If inhaled, remove to a dust-free area. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Inhalation may aggravate existing respiratory illness.

Eyes: In case of contact, immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continued rinsing for at least 15 minutes and get medical attention if irritation persists.

Skin: Wash with plenty of soap and water until clear. Seek medical attention if irritation persists.

Ingestion: Do NOT induce vomiting. First aid measures not normally required.

Note to Physician: Provide general supportive measures and treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Does not burn. All standard firefighting media may be used for packaging fires.

Unsuitable Extinguishing Media: None

Special Exposure Hazards: None known. Product is not combustible.

Special Protective Equipment: Wear full fire-fighting turn-put gear (full Bunker gear), and respiratory protection (SCBA) appropriate for packaging fire.

Precautions for Firefighters: Caution, slippery when wet.

NFPA Ratings: Health 2, Flammability 0, Reactivity 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary Measures: Keep from entering sewers or water ways.

Procedure for Cleaning/Absorption: Avoid generating dust. Collect using appropriate dustless method. Store collected materials in dry, sealed container. Dispose in licensed landfill according to local, state and federal regulations.

SECTION 7 – HANDLING AND STORAGE

Handling Precautions: This product contains quartz which may become airborne. Avoid breathing dust. Avoid creating dusty conditions. Use only where there is adequate ventilation to keep exposure below recommended limits. Wear a NIOSH/MSHA European Standard En 149 or equivalent certified for silica bearing dust, respirator when using this product. Material is slippery when wet. Promptly clean up spills to avoid breathing airborne dust.

Storage Information: Use good housekeeping in storage and work areas to prevent the accumulation of dust.



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Close container when not in use. Do not re-use empty container.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Substances	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA*
Crystalline Silica, quartz	14808-60-7	0.025 mg/m ³	10 mg/m ³
Trade Secret **	Proprietary * *	2 mg/m ³ 5 mg/m ³	%SiO ₂ + 2 2mg/m ³ 15 mg/m ³ * * *

**More restrictive exposures limits may be enforced by some states, agencies, or other authorities.*

*** The specific identity and/or percentage of composition has been withheld as a trade secret.*

**** For particles not otherwise regulated.*

Engineering Controls: Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

Eye Protection: Wear safety glasses with side shields, safety goggles or full face shield to protect against exposure. Do not wear contact lenses when working with this product.

Hand Protection: Standard work gloves.

Personal Protective Equipment: If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional, based on the specific application of this product.

Respiratory Protection: If significant exposures exceeding occupational exposure limit are possible use IOSH/MSHA respirator approved for silica bearing dust.

Skin Protection: Use appropriate gloves to prevent skin contact. Wear clothing appropriate to prevent skin contact. Dusty clothing should be laundered before re-use. Use precautionary measures to avoid creating dust when removing or laundering clothing.

Other Precautions: Eye wash fountain and emergency showers are recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Granular Solid.
Color:	Light tan to gray as dry powder.
Odor:	Odorless
pH:	4.0 – 5.0 (5% aqueous suspension)
Specific Gravity @20 C (Water=1):	2.45 – 2.55
Density @ 20 C (lbs/gallon):	Not determined
Bulk Density @ 20 C (lbs/ft ³):	60-66
Boiling Point/Range (F/C):	Not applicable
Freezing Point/Range (F/C):	Not applicable
Vapor Pressure @ 20 C (mmHg):	Not applicable
Vapor Density (Air=1):	Not applicable
Percent Volatiles:	Not applicable
Evaporation Rate (Butyl Acetate=1):	Not applicable
Solubility in Water (g/100ml):	Insoluble, forms colloidal suspension
Solubility in Solvents (g/100ml):	Not applicable
VOCs (lbs/gallon):	Not applicable
Viscosity, Dynamic @ 20 C (centipoise):	Not applicable



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES (continued)

Viscosity, Kinematic @ 20 C (centistokes):	Not determined
Partition Coefficient/n-Octanol/Water:	Not applicable
Molecular Weight (g/mole):	Not applicable
Flash Point/Range (F/C):	Not applicable
Flash Point Method:	Not applicable
Auto-ignition Temperature (F/C):	Not applicable
Flammability Limits in Air – Lower (%):	Not applicable
Flammability Limits in Air – Upper (%):	Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:	Nonreactive
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	None
Anticipated Incompatibility (Materials to Avoid):	None known
Hazardous Decomposition Products:	None
Additional Guidelines:	Not applicable

SECTION 11 – TOXICOLOGICAL INFORMATION

Principle Route of Exposure: Eye or skin contact, inhalation

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Aggravated Medical Conditions: Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to respirable quartz-bearing dust.

Cancer Status: The International Agency for Research on Cancer (IARC, 1977) concludes that there is sufficient evidence in humans for carcinogenicity of inhaled crystalline silica from occupational sources (IARC Group 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. See IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997). The National Toxicology Program (NTP) classifies respirable crystalline silica as “Known to be a human carcinogen” (MTP 9th Report on Carcinogens, 2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

Other information: See “Adverse Effects of Crystalline Silica Exposure” published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

Chronic Effects/Carcinogenicity: Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Ingestion: None known

Inhalation: Product can cause irritation of the respiratory system. Inhaled crystalline silica in the form of quartz from occupational sources is carcinogenic to humans (IARC, Group 1). Inhalation may aggravate existing respiratory illness.

Skin Contact: May cause irritation of the skin, especially in the presence of moisture.

Eye Contact: Contact may cause serious irritation, may cause mechanical eye irritation.



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Toxicity Tests

Oral Toxicity:	Not classified
Dermal Toxicity:	Not classified
Inhalation Toxicity:	Not classified
Primary Irritation Effect:	Not classified
Carcinogenicity:	Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997).
Genotoxicity:	Not classified
Reproductive/Developmental Toxicity:	Not classified

SECTION 12 – ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air):	Not determined. Based upon ingredients mobility in water and soil should be minimal.
Persistence/Degradability:	Not determined
Bio-accumulation:	Not determined

Ecotoxicological Information

Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems in high concentrations.

Acute Fish Toxicity:	Not determined
Acute Crustaceans Toxicity:	Not determined
Acute Algae Toxicity:	Not determined

Chemical Fate Information:	Not determined
Other Information:	None known

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Method: If product should become waste, dispose in a licensed landfill according to federal, state and local regulations.
Contaminated Packaging: Do not re-use. Follow all applicable national or local regulations.

SECTION 14 – TRANSPORT INFORMATION

Land Transportation

DOT – Not regulated as dangerous goods
Canadian TDG – Not regulated as dangerous goods.
ADR – Not regulated as dangerous goods.

Air Transportation

ICAO/IATA – Hazardous Class 8-Corrosive, UN1910, Packing Group III

Sea Transportation

IMDG – Not regulated as dangerous goods.

Other Transportation Information

Labels: None



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SECTION 15 – REGULATORY INFORMATION

US Regulations

US TSGA Inventory	All components listed on inventory are exempt.
EPA SARA Title III Extremely Hazardous Substances	Not applicable.
EPA SARA (311, 312) Hazard Class	Chronic Health Hazard.
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual “Toxic Chemical Release Reporting” under Section 313 (40 CFR 372).
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable.
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous as defined by the US EPA.
California Proposition 65	This product contains crystalline silica (respirable) which is a substance known to the State of California to cause cancer.

Canadian Regulations

Canadian DSL Inventory	All components listed on inventory or are exempt.
WHMIS Hazard Class	Class D, Division 2, Subdivision A for crystalline silica (respirable) Class E for calcium hydroxide.

SECTION 16 - OTHER INFORMATION

DISCLAIMER: All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, express or implied, is made by Herkules as to this information, or as to the safety, toxicity or effect of the use of this product.

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