

### SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **CF DESCO II**

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Oilwell drilling fluid additive

RESTRICTIONS ON USE: None known

SUPPLIER IDENTIFIER: **Prairie Mud Service**  
738 6th Street  
Estevan, SK  
S4A 1A4  
**(306) 634-3411**

EMERGENCY PHONE NUMBER: **(306) 634-3411**

### SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Combustible Dust – Category 1  
Carcinogenicity – Category 1A

LABEL SYMBOLS:



SIGNAL WORD: DANGER

HAZARD STATEMENTS: May form combustible dust concentrations in air.  
May cause cancer.

OTHER HAZARDS: None

PRECAUTIONARY STATEMENTS:

#### Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust.  
Use only outdoors or in a well-ventilated area.  
In case of inadequate ventilation wear respiratory protection.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Response

In case of fire: Use CO<sub>2</sub>, dry chemical or foam for extinction.  
If exposed or concerned: Get medical attention.  
Take off contaminated clothing and wash it before reuse.

#### Storage

Store locked up.

#### Disposal

Dispose of contents/container in accordance with local, provincial or federal regulations.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (w/w)
Sulfomethylated quebracho	68201-64-9	40 – 55%
Ferrous sulfate	17375-41-6	5 – 9%
Crystalline silica	14808-60-7	0.1 – 0.4%

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Brush away excess material and wash thoroughly with water and soap. If irritation develops, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water particles are removed. If irritation persists, obtain medical attention.
INGESTION:	If conscious, rinse mouth with water and give 1 - 2 glasses of water to drink. If symptoms develop obtain medical attention. Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. If irritation persists, obtain medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS:	Long term of respirable crystalline silica can cause silicosis and may result in cancer.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Carbon dioxide, dry chemical, water spray or foam.
UNSUITABLE EXTINGUISHING MEDIA:	Not available.
SPECIFIC FIRE HAZARDS:	May form an explosive dust/air mixture in the presence of an ignition source. Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust (e.g. on floors and ledges).
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon and oxides of sulfur.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move from fire area if possible. Avoid dust formation. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment. Eliminate ignition sources. Non-sparking tools should be used as dust/air mixtures may explode violently. Prevent spilled material from entering drains or waterways.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect spilled material by vacuum if possible to avoid generation of dust. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Wash spill area with water until non-slippery.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing dust. Avoid creating dust cloud during handling. Use only in a well ventilated area. No smoking, eating or drinking should be allowed in areas where this product is handled. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry area away from oxidizers. Keep away from heat and sources of ignition.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Crystalline silica: ACGIH TWA = 0.025 mg/m <sup>3</sup>
ENGINEERING CONTROLS:	Use local exhaust ventilation, process enclosure or other engineering controls as required to maintain dust concentration below TLV's.
	PERSONAL PROTECTIVE MEASURES
RESPIRATORY PROTECTION:	Respiratory protection should be worn when there is a potential for exposure to this material.
PROTECTIVE GLOVES:	Personal preference.
EYE PROTECTION:	Safety glasses with side-shields.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Fine reddish-brown powder with small white specks
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	Not available
MELTING POINT / FREEZING POINT:	Not applicable
BOILING POINT / RANGE:	Not applicable
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not available
FLAMMABILITY / EXPLOSIVE LIMITS:	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	Not available
SOLUBILITY:	Partly soluble in water
PARTION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
DECOMPOSITION TEMPERATURE:	Not available
VISCOSITY:	Not available

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not reactive
CHEMICAL STABILITY:	Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS:	Polymerization will not occur
CONDITIONS TO AVOID:	Open flame and ignition sources. Avoid generating dust.
INCOMPATIBLE MATERIALS:	Keep away from strong oxidizers and open flames.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon and oxides of sulfur.

## SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	Acute toxicity estimate = 3544 mg/kg by calculation.
SKIN CONTACT:	May cause mild irritation.
EYE CONTACT:	May cause mechanical irritation.
INGESTION:	No adverse effects expected from incidental ingestion.
INHALATION:	May cause irritation of the upper respiratory tract. This product contains crystalline silica. Breathing silica containing dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Chronic inhalation may cause silicosis, a progressive, disabling and sometimes fatal lung disease. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease.
CARCINOGENICITY:	This product is not listed by ACGIH, IARC, NTP or OSHA. Crystalline silica, when inhaled from occupational sources, is considered as a human carcinogen by IARC (Class 1) and by NTP. ACGIH classifies crystalline silica, quartz, as a suspected human carcinogen (A2).
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	Not toxic based on available information.
MUTAGENICITY:	Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.
CHRONIC TOXICITY:	Prolonged inhalation of respirable crystalline silica may cause lung disease, silicosis, lung cancer and other effects.
TARGET ORGAN EFFECTS:	Respiratory system (lungs).

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: No product information available.

CHEMICAL NAME	LD50 (fish)	LD50 (algae)
Sulfomethylanted quebracho	>1800 mg/L/96 hr scophthalmus maximus (OECD Test Guideline 203)	ErC50 > 100 mg/L/72 hr green algae (OECD Test Guideline 201) EbC50 = 79 mg/L/72 hr green algae (OECD Test Guideline 201)
Ferrous sulfate	>6.25 mg/L/96 hr cyprinodont vaiegatus (OECD Test Guideline 203)	EL50 = 45 mg/L/72 hr (green algae)
Crystalline silica	Not available	Not available

PERSISTENCE AND DEGRADABILITY: Not expected to be readily biodegradable.  
BIOACCUMULATIVE POTENTIAL: Not available.

MOBILITY IN SOIL: Not available.  
OTHER ADVERSE EFFECTS: Sulfomethylated quebracho is considered harmful to aquatic life with long lasting effects.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose/incinerate in accordance with federal, state and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

### **SECTION 14: TRANSPORTATION INFORMATION**

UN NUMBER: Not applicable  
PROPER SHIPPING NAME: Not applicable  
CLASS: Not applicable  
PACKING GROUP: Not applicable  
IMDG HAZARDS: Not applicable  
BULK TRANSPORT: Not applicable  
SPECIAL PRECAUTIONS: Not applicable

### **SECTION 15: REGULATORY INFORMATION**

DSL: All ingredients are listed on the DSL.  
WHMIS CLASS: D2A  
TSCA: All ingredients are listed or exempt from listing.

### **SECTION 16: OTHER INFORMATION**

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