

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Diversity Technologies Corp.** DATE: **May 5, 2009**
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PRODUCT NAME: **CF Desco® II (Deflocculent)**

PRODUCT USE: Oil well drilling fluid additive.
CHEMICAL FAMILY: Mixture CAS#: Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2A; D2B
WORKPLACE HAZARD: Potential carcinogen; skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not regulated under TDG
TDG CLASSIFICATION: Not applicable
UN NUMBER (PIN): Not applicable
PACKING GROUP: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>% (w/w)</u>	<u>CAS NUMBER</u>	<u>LD₅₀Oral-Rat</u>	<u>LC₅₀Inhal-Rat</u>	<u>ACGIH-TLV</u>
Ferrous sulfate	5 - 10	17375-41-6	Not available	Not available	1 mg/m ³ (as Fe)
Crystalline silica quartz	0.1-1.0	14808-60-7	Not available	Not available	0.025 mg/m³

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [XX] INHALATION [XX] INGESTION
EYE CONTACT: May cause severe irritation and could cause prolonged impairment of vision. The degree of injury depends on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. May scratch the surface of the eye.
SKIN CONTACT: May cause severe irritation, redness and itching. Not expected to be harmful to the internal organs if absorbed through the skin.

INGESTION:	Not expected to be harmful if swallowed. May be irritating to the mouth, throat and stomach. Symptoms may include nausea, vomiting and diarrhea.
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. Long term exposure to iron dusts may cause a benign lung condition (siderosis) in which there are lung changes identifiable by x-ray imaging, without significant impairment of lung function.
CARCINOGENICITY:	Product contains 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:	No information available.
MUTAGENICITY:	Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.
SYNERGISTIC PRODUCTS:	No information available.

SECTION IV: FIRST AID MEASURES

EYE CONTACT:	Flush with gently flowing warm water for 15 minutes, or until irritation ceases, holding the eyelids open. If irritation persists obtain medical attention.
SKIN CONTACT:	Wash thoroughly with water and soap. If irritation persists get medical attention.
INGESTION:	Do not induce vomiting. Rinse mouth and give a glass of water. Seek medical attention. Never give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. If breathing difficulties or distress continues obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Fine reddish-brown powder with small white specks; odourless
SPECIFIC GRAVITY:	1.5 – 1.7
BOILING POINT (°C):	Not applicable

MELTING POINT (°C):	Not applicable	
SOLUBILITY IN WATER:	Appreciable	pH : Not available
PERCENT VOLATILE BY VOLUME:	Not applicable	
EVAPORATION RATE:	Not applicable	
VAPOUR PRESSURE (mmHg):	Not applicable	
VAPOUR DENSITY (air = 1):	Not applicable	
BULK DENSITY:	Not available	

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not applicable
FLAMMABLE LIMITS:	Not applicable
EXTINGUISHING MEDIA:	CO ₂ , water, mist, foam
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	If in a finely divided and suspended state, treat as a flammable dust.

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE [XX]	UNSTABLE []
INCOMPATIBILITY (CONDITIONS TO AVOID):	May react with strong oxidizing agents.	
CONDITIONS OF REACTIVITY:	Not established.	
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon, sulfur and iron oxides may be released when burned.	
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR [XX]	MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	Suggest NIOSH approved dust mask be worn for levels below TLV. Use approved respirator with dust cartridges for levels above TLV.
VENTILATION:	Use only in well ventilated area. Use local exhaust ventilation, process enclosure and/or other engineering controls to maintain levels of airborne dust below TLV.
PROTECTIVE GLOVES:	Suggest rubber or neoprene
EYE PROTECTION:	Suggest safety glasses with side shields or chemical goggles.

