

### CF DESCO® II (DEFLOCCULENT)

#### SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: Diversity Technologies Corp. DATE: April 17, 2015

**8750 – 53<sup>rd</sup> Ave.** PHONE: **780-440-4923 Edmonton, AB T6E 5G2** FAX: **780-469-1899** 

PRODUCT NAME: CF Desco® II (Deflocculent)

PRODUCT USE: Oilwell 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; dust explosion hazard

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**

INGREDIENT	% (w/w)	CAS NUMBER	LD <sub>50</sub> Oral-Rat	LC <sub>50</sub> Inhal-Rat	ACGIH-TLV
Ferrous sulfate	5 - 10	17375-41-6	Not available	Not available	1 mg/m³ (as Fe)
Crystalline silica quartz	1 - 5	14808-60-7	Not available	Not available	0.025 mg/m <sup>3</sup>

### SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY:  $\ oxdots$  EYE CONTACT  $\ oxdots$  SKIN CONTACT  $\ oxdots$  INHALATION  $\ oxdots$  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: May be harmful if swallowed. May be irritating to the mouth, throat and

stomach. Symptoms may include nausea, vomiting and diarrhea.



## CF DESCO® II (DEFLOCCULENT)

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

SKIN CONTACT: Flush with gently flowing warm water for 15 minutes, or until irritation

ceases, holding the eyelids open. If irritation persists obtain medical

attention.

EYE 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 (relative density)

BOILING POINT (°C):

MELTING POINT (°C):

Not applicable

Not applicable

SOLUBILITY IN WATER: Partly soluble pH: Not available

PERCENT VOLATILE BY VOLUME:

EVAPORATION RATE:

VAPOUR PRESSURE (mmHg):

VAPOUR DENSITY (air = 1):

Not applicable

Not applicable



## CF DESCO® II (DEFLOCCULENT)

BULK DENSITY:	Not available
---------------	---------------

### SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: CO<sub>2</sub>, 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.

HAZARDOUS COMBUSTION PRODUCTS: Carbon, sulfur and iron oxides may be released when

burned.

### **SECTION VII: REACTIVITY DATA**

STABILITY: 
☐ STABLE ☐ UNSTABLE

INCOMPATIBILITY (CONDITIONS TO AVOID): May react with strong oxidizing agents.

CONDITIONS OF REACTIVITY: Not established.

HAZARDOUS DECOMPOSITION PRODUCTS: Not available

HAZARDOUS POLYMERIZATION: ☑ WILL NOT OCCUR ☐ MAY OCCUR

### SECTION VIII: PREVENTIVE 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

goggies.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): It is suggested to use chemical resistant protective

clothing when handling this product. Ensure eyewash

station and emergency shower are available.



## CF DESCO® II (DEFLOCCULENT)

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Avoid skin and eye contact. Do not breathe the dust. Wash thoroughly after handling. Practice reasonable caution and personal cleanliness. Launder exposed clothing before reuse. Wear suitable protection for eyes and skin when handling. Store in dry, well-ventilated area away from incompatibles and ignition sources. Empty packages contain small amounts of hazardous material and should be handled as if full.

#### STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment. Avoid all bodily contact with spilled material. Vacuum or sweep up in a manner that prevents the creation of airborne dust. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Flush spill area with water. Do not allow material to enter storm sewers or storm water inlets.

#### WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial 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 IX: PREPARATION

The information contains herein is given in good faith, but no warranty, expressed or implied, is made.

DATE ISSUED: April 17, 2015
SUPERSEDES: April 24, 2012
BY: Regulatory Affairs
PHONE: 780-440-4923