

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **STARDRIL**  
 OTHER MEANS OF IDENTIFICATION: None  
 RECOMMENDED USE: Oilwell drilling fluid additive  
 RESTRICTIONS ON USE: None known  
 SUPPLIER IDENTIFIER: **Di-Corp**  
**8750-53 Ave NW**  
**Edmonton, AB T6E 5G2**  
**780-440-4923**  
 EMERGENCY PHONE NUMBER: 780-440-4923

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Not hazardous  
 LABEL SYMBOLS: Not applicable  
 SIGNAL WORD: Not applicable  
 CLASSIFICATION INFORMATION: Not applicable  
 PRECAUTIONARY STATEMENTS: Not applicable  
 OTHER HAZARDS: None know

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME   | CAS NUMBER | CONCENTRATION |
|-----------------|------------|---------------|
| Modified starch | 9063-38-1  | 100%          |

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing and wash affected area thoroughly with water and soap. If irritation occurs, and persists, obtain medical attention.

EYE CONTACT: Immediately flush with gently flowing warm water for 15 minutes. Obtain medical attention if irritation persists.

INGESTION: Rinse mouth and give 1 to 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 area free from dust. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If breathing difficulties or distress continues obtain medical attention.

MOST IMPORTANT SYMPTOMS / EFFECTS: No known acute or chronic health effects are expected as a result of contact with this product.

IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT: Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Dry chemical, alcohol foam, carbon dioxide or water spray.  
 UNSUITABLE EXTINGUISHING MEDIA: None.  
 SPECIFIC FIRE HAZARDS: May be combustible at high temperatures. Dust clouds may form explosive mixture with air

HAZARDOUS COMBUSTION PRODUCTS: in the presence of ignition sources.  
 SPECIAL PROTECTIVE EQUIPMENT & Thermal decomposition may produce oxides of carbon.  
 PRECAUTIONS: Self-contained breathing apparatus required for fire-fighting personnel.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear appropriate safety gear including eye and respiratory protection. Avoid creating dust clouds. Eliminate ignition sources.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect dry material by sweeping and shoveling. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water once all traces of material are swept up.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Avoid contact with eyes or prolonged skin contact. Use good personal hygiene and housekeeping. Avoid dust formation. Avoid breathing dust. Launder contaminated clothing before reuse.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry, well-ventilated place away from incompatible materials. Store away from heat, flames and ignition sources.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: No product information available. Use local nuisance dust limits.  
 ENGINEERING CONTROLS: Use only with adequate ventilation. If user operations generate dust use process enclosure, local exhaust ventilation or other engineering controls to keep worker exposure below limits.

### PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Approved dust masks recommended for dust levels below TLV. Use a properly fitted particulate filter respirator complying with an approved standard if airborne concentrations exceeds TLV or if a risk assessment indicates this is necessary.  
 PROTECTIVE GLOVES: PVC or other plastic material gloves recommended.  
 EYE PROTECTION: Safety glasses with side-shields. Do not wear contact lenses.  
 OTHER PROTECTIVE EQUIPMENT (SPECIFY): Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Off-white powder  
 ODOUR: Odourless  
 ODOUR THRESHOLD: Not applicable  
 pH: 10 - 11 (4% aqueous solution)  
 MELTING POINT / FREEZING POINT: Not applicable  
 BOILING POINT / RANGE: Not applicable  
 FLASH POINT: Not applicable  
 EVAPORATION RATE: Not applicable  
 FLAMMABILITY: Not available  
 FLAMMABILITY / EXPLOSIVE LIMITS: Not available

|                            |                  |
|----------------------------|------------------|
| VAPOUR PRESSURE:           | Not applicable   |
| VAPOUR DENSITY:            | Not applicable   |
| RELATIVE DENSITY:          | Not available    |
| SOLUBILITY:                | 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:                         | Hazardous polymerization does not occur.  |
| CHEMICAL STABILITY:                 | Stable.   |
| POSSIBILITY OF HAZARDOUS REACTIONS: | Oxidizing agents may cause exothermic reactions.  |
| CONDITIONS TO AVOID:                | Dust-air mixtures may be explosive. The minimum ignition temperature reported through a 200 mesh sieve is 380°C. The minimum explosive concentration of a dust cloud is 0.04 oz/ft <sup>3</sup> . Damp or wet storage conditions will lead to spoilage. |
| INCOMPATIBLE MATERIALS:             | Oxidizing agents.   |
| HAZARDOUS DECOMPOSITION PRODUCTS:   | Thermal decomposition may produce oxides of carbon.   |

### SECTION 11: TOXICOLOGICAL INFORMATION

|                        |  |
|------------------------|--|
| PRODUCT TOXICITY:      | Not available  |
| SKIN CONTACT:          | Non-irritating to intact skin. Minor irritation may occur on abraded skin. |
| EYE CONTACT:           | Dust and concentrated solutions may cause mild eye irritation.             |
| INGESTION:             | No effects expected from ingestion of small quantities.                    |
| INHALATION:            | Dust may cause irritation including coughing and sneezing.                 |
| CARCINOGENICITY:       | Not listed by NTP, IARC, OSHA or ACGIH.                                    |
| TERATOGENICITY:        | No evidence of teratogenicity.   |
| REPRODUCTIVE TOXICITY: | No evidence of reproductive toxicity.                                      |
| MUTAGENICITY:          | Not mutagenic.   |
| CHRONIC TOXICITY:      | No information available.  |
| TARGET ORGAN EFFECTS:  | None.  |

### SECTION 12: ECOLOGICAL INFORMATION

|                                |                |
|--------------------------------|----------------|
| ECOTOXICITY:                   | Not available  |
| PERSISTENCE AND DEGRADABILITY: | Not available  |
| BIOACCUMULATIVE POTENTIAL:     | Not available  |
| MOBILITY IN SOIL:              | Not available. |
| OTHER ADVERSE EFFECTS:         | None know.     |

### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of 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 14: TRANSPORTATION INFORMATION

|                       |                        |
|-----------------------|------------------------|
| TDG                   | Not regulated          |
| DOT                   | Not regulated          |
| IATA                  | Not regulated          |
| IMDG                  | Not regulated          |
| UN NUMBER:            | Not applicable         |
| PROPER SHIPPING NAME: | Not applicable         |
| CLASS:                | Not applicable         |
| PACKING GROUP:        | Not applicable         |
| IMDG HAZARDS:         | Not a marine pollutant |
| BULK TRANSPORT:       | Not regulated          |
| SPECIAL PRECAUTIONS:  | None                   |

### SECTION 15: REGULATORY INFORMATION

|              |        |
|--------------|--------|
| DSL:         | Listed |
| WHMIS CLASS: | None   |
| TSCA:        | Listed |

### SECTION 16: OTHER INFORMATION

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

REVISION DATE: March 21, 2017