



# **Prairie Mud Service Ltd.**

*"Serving Western Canada with 24 Hour Drilling Mud Service"*

## **MSDS (Material Safety Data Sheet)**

### **MATERIAL SAFETY DATA SHEET**

#### **SECTION I: IDENTIFICATION OF PRODUCT**

COMPANY: **Prairie Mud Service** DATE: July 18, 2010  
**738 6<sup>th</sup> Street** PHONE: 306-634-3411  
**Estevan, SK S4A 1A4** FAX: 306-634-7310

PRODUCT NAME: **DrilStar HT**

PRODUCT USE: Oil well drilling fluid additive  
CHEMICAL FAMILY: Pregelatinized starch CAS#: 9005-25-8

#### **WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)**

WHMIS CLASSIFICATION: Not a controlled product under WHMIS  
WORKPLACE HAZARD: Not applicable

#### **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>LD<sub>50</sub>Oral-Rat</u>	<u>LC<sub>50</sub>Inhal-Rat</u>	<u>ACGIH-TLV</u>
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Contains no WHMIS controlled ingredients

#### **SECTION III: HEALTH HAZARDS**

ROUTE OF ENTRY:  EYE CONTACT  SKIN  INHALATION  INGESTION  
EYE CONTACT: May cause mechanical irritation.  
SKIN CONTACT: No effects expected.  
INGESTION: No effects expected.  
INHALATION: May cause irritation to upper respiratory tract. Symptoms include coughing and sneezing.  
CARCINOGENICITY: No information available.



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TERATOGENICITY: No information available.  
REPRODUCTIVE TOXICITY: No information available.  
MUTAGENICITY: No information available.  
SYNERGISTIC PRODUCTS: No information available.

### **SECTION IV: FIRST AID MEASURES**

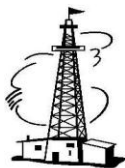
EYE CONTACT: Flush eyes with gently flowing water for 15 minutes or until irritation ceases. If irritation persists seek medical attention.  
SKIN CONTACT: Wash skin with soap and water.  
INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Seek medical attention. Never give anything by mouth to an unconscious or convulsing victim.  
INHALATION: Move to fresh air. Apply oxygen or artificial respiration as required. If breathing difficulties or distress continues obtain medical attention.

### **SECTION V: PHYSICAL DATA**

APPEARANCE AND ODOUR: White powder; no odour information available  
SPECIFIC GRAVITY: Not available  
BOILING POINT (°C): Not applicable  
MELTING POINT (°C): Not applicable  
SOLUBILITY IN WATER: Appreciable pH: 5.0 - 8.0 (4% sol'n)  
PERCENT VOLATILE BY VOLUME: Not applicable  
EVAPORATION RATE: Not applicable  
VAPOUR PRESSURE (mmHg): Not applicable  
VAPOUR DENSITY (air = 1): Not available  
BULK DENSITY: 20 – 35 lb/ft<sup>3</sup>

### **SECTION VI: FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: Not applicable  
FLAMMABLE LIMITS: Not applicable  
EXTINGUISHING MEDIA: Water, foam, dry powder, CO<sub>2</sub>  
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire fighting personnel.



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UNUSUAL FIRE AND  
EXPLOSION HAZARDS:

Dust-air mixture may be explosive. The minimum ignition temperature reported for starch, through 200 mesh, is 380°C. The minimum explosive concentration of a dust cloud is 0.04 oz/ft<sup>3</sup>. Avoid ignition sources.

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

STABILITY:

STABLE [XX]

UNSTABLE [ ]

INCOMPATIBILITY

Strong oxidizing agents. Avoid creating dust clouds in presence of ignition sources.

(CONDITIONS TO AVOID):

CONDITIONS OF REACTIVITY:

Contact with incompatible materials; dust clouds in the presence of ignition sources.

HAZARDOUS DECOMPOSITION  
PRODUCTS:

Oxides of carbon upon combustion.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR [XX] MAY OCCUR [ ]

### **SECTION VIII: PREVENTATIVE MEASURES**

#### **SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION:

Suggest NIOSH/MESA approved dust mask if dust is present at levels below TLV. Use approved respirator with dust cartridges if level of airborne dust exceeds TLV.

VENTILATION:

Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of airborne dust below TLV.

PROTECTIVE GLOVES:

Not required

EYE PROTECTION:

Suggest safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT  
(Specify):

Ensure eye wash station and emergency shower are available

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING**

Practice reasonable caution and personal cleanliness. Avoid ingestion. Do not breathe dust. Avoid skin and eye contact. Avoid practices, which produce dust. Store away in cool, dry area away from incompatible materials and ignition sources. Keep container tightly closed when not in use. This product is very slippery when wet.



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

Use appropriate safety equipment. Vacuum or sweep up in a manner, which does not create dust clouds. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water. Clean up as much dry material as possible then flush spill area with copious quantities of water.

### **WASTE DISPOSAL METHOD**

Dispose/incinerate 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 CONTAINED HEREIN IS GIVEN IN GOOD FAITH,  
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: July 18, 2010 BY: Product safety committee