



Prairie Mud Service Ltd.

"Serving Western Canada with 24 Hour Drilling Mud Service"

MSDS (Material Safety Data Sheet)

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Prairie Mud Service** DATE: May 29, 2009
738 6th Street PHONE: 306-634-3411
Estevan, SK FAX: 306-634-6694

PRODUCT NAME: **BIOVIS**

PRODUCT USE: Oil well drilling fluid additive.
CHEMICAL FAMILY: Biopolymer CAS#: Not available

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not a controlled product under WHMIS.
WORKPLACE HAZARD: Dust may form explosive mixture in air.

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>PERCENT</u> | <u>CAS NUMBER</u> | <u>LD₅₀ Oral-Rat</u> | <u>LC₅₀ Inhal-Rat</u> | <u>ACGIH-TLV</u> |
|-------------------|----------------|-------------------|---------------------------------|----------------------------------|------------------|
|-------------------|----------------|-------------------|---------------------------------|----------------------------------|------------------|

Contains no WHMIS controlled ingredients

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: EYE CONTACT SKIN INHALATION INGESTION
EYE CONTACT: May cause irritation.
SKIN CONTACT: May cause irritation in susceptible persons.
INGESTION: Low toxicity (LD₅₀ Oral-Rat > 5000 mg/kg for similar product). No adverse effects expected.
INHALATION: Dust may cause upper respiratory tract irritation.
CARCINOGENICITY: No information available.
TERATOGENICITY: No information available.
REPRODUCTIVE: No information available.
TOOXICITY:
MUTAGENICITY: No information available.



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SYNERGISTIC PRODUCTS: No information available.

SECTION IV: FIRST AID MEASURES

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

EYE CONTACT: Flush eyes with gently flowing warm water until particles are dislodged and irritation ceases. Seek medical attention if irritation persists.

INGESTION: Do not induce vomiting without medical advice. Rinse mouth. Dilute by drinking large quantity of water. 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. Obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR: Light cream powder; odourless

SPECIFIC GRAVITY: Not available

BOILING POINT (°C): Not applicable

MELTING POINT (°C): Decomposes before melting.

SOLUBILITY IN WATER: 40 g/L @ 20°C pH: Not available

PERCENT VOLATILE BY VOLUME: Not available

EVAPORATION RATE: Not available

VAPOUR PRESSURE (mmHg): Not available

VAPOUR DENSITY (air = 1): Not available

BULK DENSITY: 0.5 – 0.6 g/cm³ @ 20°C

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable

FLAMMABLE LIMITS: LEL = 60 g/cm³ dust

EXTINGUISHING MEDIA: Use water spray, carbon dioxide or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus required for fire fighting personnel. Evacuate nonessential personnel from fire area.



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UNUSUAL FIRE AND
EXPLOSION HAZARDS:

Dust explosions may occur when finely divided particle are mixed with air in the presence of an ignition source. Auto-ignition temperature ~ 390°C for dust whirled up.

SECTION VII: REACTIVITY DATA

STABILITY: STABLE [XX] UNSTABLE []
INCOMPATIBILITY No known incompatible materials. Avoid strong
(CONDITIONS TO AVOID): oxidizers. Avoid dust formation. Avoid
temperatures above 160°C (decomposes).
CONDITIONS OF REACTIVITY: Decomposes before melting.
HAZARDOUS DECOMPOSITION Oxides of carbon.
PRODUCTS:
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Suggest NIOSH approved dust mask. For airborne levels above the TLV use an approved respirator with dust/mist filters. ACGIH TWA = 10 mg/m³ inhalable particles.
VENTILATION: Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of air borne dust below TLV.
PROTECTIVE GLOVES: Use gloves to prevent contact.
EYE PROTECTION: Suggest safety glasses or goggles.
OTHER PROTECTIVE EQUIPMENT An appropriate to prevent contact with body. Ensure
(Specify): eyewash station and emergency shower are available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid skin and eye contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use only in a well ventilated area. Avoid dust formation. Store in a cool dry area away from incompatibles and ignition sources. Keep tightly closed when not in use. Store unused material in original container.

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

Use appropriate safety equipment. Eliminate ignition sources. Contain spill. Sweep up and shovel to collect. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Wash contaminated area with water.



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WASTE DISPOSAL METHOD

Dispose in accordance with, local, provincial and federal regulations and guidelines. 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: October 15, 2009

BY: Product safety committee
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