



Prairie Mud Service

Fluid Solutions Thru Experience and Technology

MODIFIED STARCH SAFETY DATA SHEET

Revision Date: May 16, 2018
Review Date: October 13, 2022

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **MODIFIED STARCH**
OTHER MEANS OF IDENTIFICATION: None
RECOMMENDED USE: Oilwell drilling fluid additive
RESTRICTIONS ON USE: None known
SUPPLIER IDENTIFIER: **Prairie Mud Service**
738-6th Street
Estevan, Saskatchewan S4A 2A2
(306) 634-3411
EMERGENCY PHONE NUMBER: (306) 634-3411 (24 hr)

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Not hazardous per part 2 of the HPR.
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
Sodium carboxymethyl 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 in the presence of ignition sources. The minimum ignition temperature reported through a 200 mesh sieve is 380°C. The minimum explosive concentration of a duct cloud is 0.04 oz/ft³. Avoid open lights, flames, welding and spark producing sources.

HAZARDOUS COMBUSTION PRODUCTS: Thermal decomposition may produce oxides of carbon.
SPECIAL PROTECTIVE EQUIPMENT & 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. Caution: This material is slippery when wet.

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. Caution: This material is slippery when wet.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool, dry, well-ventilated place away from incompatible materials. Damp or wet conditions will lead to spoilage. 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.
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:	1.47
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:	Not reactive.
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	None known.
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 ³ . Damp or wet storage conditions will lead to spoilage.
INCOMPATIBLE MATERIALS:	Strong 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

REVISION DATE:	May 16, 2018
REPLACES:	None

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