



Prairie Mud Service Ltd.

"Serving Western Canada with 24 Hour Drilling Mud Service"

MSDS (Material Safety Data Sheet)

CHEMFOAM

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: **Prairie Mud Service** DATE: Oct 15, 2017
738 6th Street PHONE: 306-634-3411
Estevan, SK S4A 1A4 FAX: 306-634-6694

PRODUCT NAME: **CHEMFOAM**

PRODUCT USE: Oil well drilling fluid additive

CHEMICAL FAMILY: Surfactant blend in methanol CAS#: Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: B2, D1B, D2A, D2B
 WORKPLACE HAZARD: Flammable liquid; acute toxin; teratogenic; skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Flammable liquid, N.O.S.* (methanol)
 TDG CLASSIFICATION: 3
 UN NUMBER (PIN): UN1993
 PACKING GROUP: III

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	% (v/v)	CAS NUMBER	LD50Oral-Rat	LC50Inhal-Rat	ACGIH-TLV
Methanol	10-30	67-56-1	5628 mg/kg	64000 ppm/4hr	TWA = 200ppm
Hexylene Glycol	3-7	107-41-5	3700 mg/kg	Not determined	25 ppm (ceiling)
Quaternary Amine	Confidential Business		>3 mg/kg	Not available	Not available
Fatty sodium sulfonate	Exemption #6657		2.5 mg/kg	Not available	Not available
Alkyl ammonium sulfonate	Granted June 26, 2006		Not determined	Not determined	Not available

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [XX] INHALATION [XX] INGESTION

EYE CONTACT: Can cause severe irritation, redness, pain, blurred vision and possible tissue destruction.

SKIN CONTACT: May cause mild irritation, redness, cracking or drying. Prolonged or repeated contact can cause rash or dermatitis. Can be absorbed through intact skin and cause CNS effects, visual effects and gastrointestinal upset.

INGESTION: Poisonous. May cause nausea, headache, visual disturbances ranging from double vision to blindness; may result in central nervous system depression or death. Effects may be delayed up to 12hours after ingestion.

INHALATION: High vapour concentrations are irritating to the eyes and respiratory tract. May cause headaches, sleepiness, nausea, giddiness, loss of consciousness, digestive and visual disturbances and death.

CARCINOGENICITY: No information available.

TERATOGENICITY: Methanol: Fetotoxic and teratogenic effects observed in animals at concentrations that did not produce maternal toxicity.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICTY: An ingredient in this product has been shown to cause in-vivo mutagenic effects in laboratory animals.

SYNERGISTIC PRODUCTS: No information available.

SECTION IV: FIRST AID MEASURES

EYE CONTACT: Flush with water for fifteen minutes, or until irritation ceases. Obtain medical attention when flushing is completed.

SKIN CONTACT: Immediately wash with soap and water while removing contaminated clothing and footwear. Continue flushing for 20 minutes. Obtain immediate medical attention

INGESTION: Do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration of vomitus. Never give anything by mouth to an unconscious or convulsing victim. Seek immediate medical attention or contact

local poison control center.
INHALATION: Move patient to fresh air. Apply oxygen or artificial respiration as required. Obtain immediate medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR: Clear yellow liquid; alcohol odour
SPECIFIC GRAVITY: 1.01
BOILING POINT (° C): Not determined
MELTING POINT (° C): < -15
SOLUBILITY IN WATER: Miscible pH: 7 - 9
PERCENT VOLATILE BY VOLUME: Not determined
EVAPORATION RATE: Not determined
VAPOUR PRESSURE (mmHg): Not determined
VAPOUR DENSITY (air = 1): Not determined
BULK DENSITY: Not applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 28° C (Tag CC)
FLAMMABLE LIMITS: Not determined
EXTINGUISHING MEDIA: CO₂; foam; dry chemical; water fog
SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment and self-contained breathing apparatus required for fire-fighting personnel. Remove containers from the fire area, or cool with water spray, if possible.
UNUSUAL FIRE AND EXPLOSION HAZARDS: May form explosive mixtures of vapours in air at or above the flash point. Vapours can travel to source of ignition and flash back.
STABILITY: STABLE [XX] UNSTABLE []
INCOMPATIBILITY: Strong oxidizers. Avoid heat and sources of ignition.
(CONDITIONS TO AVOID):
CONDITIONS OF REACTIVITY: Not available
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, nitrogen and sulphur on combustion
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Approved full-face plate respirator with organic vapour cartridges or SCBA required of TLV's are exceeded.
VENTILATION: Use local exhaust ventilation, process enclosure or other engineering controls to maintain vapour concentration below TLV's. Ensure exhaust system is explosive proof.
PROTECTIVE GLOVES: Viton gloves recommended
EYE PROTECTION: Chemical goggles and full face-shield recommended. Do not wear contact lenses.

SECTION VII: REACTIVITY DATA

OTHER PROTECTIVE EQUIPMENT Suggest the use of a chemical apron and/or chemical resistant clothing. Ensure safety shower and eye wash stations are available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Do not breathe mist or vapours. Wash thoroughly after handling. Practice reasonable caution and personal cleanliness. Launder exposed clothing before reuse. Avoid skin and eye contact. Wear suitable protection for eyes and skin when handling. Store in dry well ventilated area away from ignition sources. Keep container tightly closed when not in use. Ground and bond containers during transfers. Empty packages contain residual hazardous material and must be handled and stored as if full.

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

Evacuate area and eliminate ignition sources. Enter area only if wearing appropriate safety equipment. Avoid all bodily contact with spilled material. Stop leak if possible to do so without risk. Small spills; soak up with absorbent material and collect in approved containers. Large spills; dike to contain spill; collect with vacuum truck. Flush spill area with water. Collect flush water in an approved container for disposal. Do not allow material to enter storm sewers or waterways

WASTE DISPOSAL METHOD

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. Empty containers, which have not been cleaned and purged, must be recycled, or disposed of, in accordance with local regulations.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH,
BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.