



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: Oct. 15/09
738 6th Street PHONE: 306-634-3411
Estevan, SK S4A 1A4 FAX: 306-634-6694

PRODUCT NAME: **CALCIUM CHLORIDE FLAKE (80-84%)**
Calcium chloride dehydrate

PRODUCT USE: Oil well drilling fluid & cement additive.
CHEMICAL FAMILY: Alkaline earth halide CAS#: 10035-04-8

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D2B
WORKPLACE HAZARD: Skin & eye irritant

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>LD₅₀ Oral-Rat</u>	<u>LC₅₀ Inhal-Rat</u>	<u>ACGIH-TLV</u>
Calcium chloride	80-84	10043-52-4	1000mg/kg	Not available	Not established

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [] INHALATION [] INGESTION
EYE CONTACT: May cause irritation or burns.
SKIN CONTACT: May cause skin irritation. Prolonged contact when moisture is present may result in superficial burns. Contact with abraded skin or cuts can cause severe necrosis.
INGESTION: Low in toxicity. May irritate gastrointestinal tract and cause nausea and vomiting.



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INHALATION: Dust or mist (from solutions) may cause temporary irritation of the nose and throat. Severe exposures may cause nasal discharge and coughing. Severe exposures are unlikely to cause serious or irreversible harmful effects to the lung, or produce toxic effects elsewhere in the body.

CARCINOGENICITY: Not considered a carcinogen.

TERATOGENICITY: No evidence of teratogenicity.

REPRODUCTIVE TOXICITY: No evidence of reproductive toxicity.

MUTAGENICITY: Not considered a mutagen.

SYNERGISTIC PRODUCTS: No known synergistic materials.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Immediately wash with lots of soap and water. Remove and launder contaminated clothing before reuse. If irritation persists or develops obtain medical attention.

EYE CONTACT: Immediately flush eyes with gently flowing water for at least 15 minutes; lifting the eyelids ensure thorough flushing. Obtain medical attention.

INGESTION: Rinse mouth with water and give 2 to 4 glasses of water to dilute material in stomach. Induce vomiting under medical supervision. Obtain medical attention. Never give anything by mouth unless victim is fully conscious.

INHALATION: Move to fresh air. Give oxygen or artificial respiration if required. If breathing difficulties, or distress, continue obtain medical attention

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Small white flakes; odourless
SPECIFIC GRAVITY:	1.85 @ 25°C
BOILING POINT (°C):	Not available
MELTING POINT (°C):	176
SOLUBILITY IN WATER:	97.7 g/100mL @ 0°C pH: 7 to 10
PERCENT VOLATILE BY VOLUME:	Not applicable
EVAPORATION RATE:	Not applicable
VAPOUR PRESSURE (mmHg):	Not applicable
VAPOUR DENSITY (air = 1):	Not applicable
BULK DENSITY:	Not available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA



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FLASH POINT:	Not applicable
FLAMMABLE LIMITS:	Not applicable
EXTINGUISHING MEDIA:	Use extinguishing media appropriate for packaging and surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained breathing apparatus required for fire fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Product will not burn. Avoid use of water for fire fighting, as product will produce considerable heat when dissolving in water.

SECTION VII: REACTIVITY DATA

STABILITY:	STABLE <input checked="" type="checkbox"/> UNSTABLE <input type="checkbox"/>
INCOMPATIBILITY (CONDITIONS TO AVOID):	Reacts violently with bromine trifluoride, or a mixture of boron trioxide and calcium oxide. Sulfuric acid yields hydrogen chloride (HCl), which is corrosive, irritating, and reactive. Water reactive materials, such as sodium, cause an exothermic reaction. Methyl vinyl ether starts runaway polymerization reaction. Zinc; yields hydrogen gas with solutions, which may explode under these conditions.
CONDITIONS OF REACTIVITY:	Contact with incompatibles.
HAZARDOUS DECOMPOSITION PRODUCTS:	Fumes of chlorides (Cl ⁻) are given off at temperatures above 1600°C.
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR <input checked="" type="checkbox"/> MAY OCCUR <input type="checkbox"/>

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	NIOSH/MESA approved dust mask or respirator with dust cartridges recommended.
VENTILATION:	Use local exhaust ventilation, process enclosure or other engineering controls as required to keep airborne concentrations of dust below TLV.
PROTECTIVE GLOVES:	Rubber or plastic gloves suggested.
EYE PROTECTION:	Safety glasses with side-shields at minimum. Do not wear contact lenses.
OTHER PROTECTIVE EQUIPMENT (Specify):	Ensure eyewash station and emergency shower are available.



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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash thoroughly after handling. Store in a cool, dry place away from incompatibles. Prolonged storage may cause product to cake and become wet from atmospheric moisture. Empty packages contain residual hazardous material and should be handled as if full.

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

Use appropriate safety equipment. Most spills can be cleaned up using brooms and shovels. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Flush spill area with copious quantities of water. Prevent water from entering sewers and watercourses.

WASTE DISPOSAL METHOD

Dispose 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.

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The above information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Prairie Mud Service cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.
