

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **Clay Check**
OTHER MEANS OF IDENTIFICATION: None
RECOMMENDED USE: Oilwell drilling fluid additive
RESTRICTIONS ON USE: None known
SUPPLIER IDENTIFIER: **Di-Corp**
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923
EMERGENCY PHONE NUMBER: 780-468-4064 (24 hr)

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Acute toxicity – Category 4
Skin Irritation – Category 2
Serious eye damage – Category 1
Carcinogenicity – Category 1
STOT (RE) – Category 1



SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION: Harmful if swallowed.
Causes skin irritation.
Causes serious eye damage.
May cause cancer by inhalation.
Causes damage to lungs through prolonged or repeated inhalation.
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, eye and face protection. Do not breathe dust.

PRECAUTIONARY STATEMENTS: If exposed or concerned: Get medical attention.
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Store locked up.

OTHER HAZARDS: Dispose of contents/container in accordance with local/regional/national regulations.

OTHER HAZARDS: None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Hydrated ammonium and calcium nitrate	6484-52-2 & 10124-37-5	60 - 100 (w/w)
Calcium chloride	10043-52-4	15 – 40 (w/w)
Quartz; crystalline silica	14808-60-7	1 -5 (w/w)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and brush away excess product. Flush with water for 15 minutes. If irritation develops and persists seek medical attention.
EYE CONTACT:	Immediately flush eyes with gently flowing warm water for at least 15 minutes. Get medical attention when flushing is completed.
INGESTION:	Do not induce vomiting unless directed to do so by medical personnel. Rinse mouth with water. Give 1 to 2 glasses of water. Obtain medical attention. Never give anything by mouth if patient 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 continue obtain medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS:	May cause severe eye irritation.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Immediate flushing of eyes is critical to prevent possible damage. If large quantity is ingested, get immediate medical advice or attention. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use flooding quantities of water to extinguish.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use chemical extinguisher or foam or attempt to smother the fire with steam or sand.
SPECIFIC FIRE HAZARDS:	None known.
HAZARDOUS COMBUSTION PRODUCTS:	Not available.
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

Use appropriate safety equipment. Evacuate nonessential personnel.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect dry material by shoveling. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Flush spill area thoroughly with water.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Wear personal protective equipment. Wash thoroughly after handling, before eating, smoking and using the lavatory and at the end of the working period. Avoid contact with skin and eyes. Avoid ingestion. Wash clothing before reuse.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area away from incompatibles. Keep container tightly closed and properly labelled. Empty packages contain residual hazardous material and should be handled as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT

Hydrated ammonium and calcium nitrate
Calcium chloride
Quartz; crystalline silica

EXPOSURE LIMITS (ACGIH TLV)

Not established
TWA = 5 mg/m³
TWA = 0.025 mg/m³

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:

In absence of adequate ventilation an approved dust mask should be worn. If TLV is exceeded wear an approved respirator with dust cartridges.

PROTECTIVE GLOVES:

Rubber gauntlets recommended.

EYE PROTECTION:

Suggest safety glasses with side shields. Suggest chemical goggles be worn when preparing solutions.

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:

White to off-white granules

ODOUR:

Odourless

ODOUR THRESHOLD:

Not applicable

pH:

Not determined

MELTING POINT / FREEZING POINT:

Not applicable

BOILING POINT / RANGE:

Not determined

FLASH POINT:

Not applicable

EVAPORATION RATE:

Not determined

FLAMMABILITY:

Not flammable

FLAMMABILITY / EXPLOSIVE LIMITS:

Not applicable

VAPOUR PRESSURE:

Not determined

VAPOUR DENSITY:

Not determined

RELATIVE DENSITY:

Not determined

SOLUBILITY:

Partially soluble in water

PARTITION COEFFICIENT:

Not available

AUTO-IGNITION TEMPERATURE:

Not applicable

DECOMPOSITION TEMPERATURE:

Not determined

VISCOSITY:

Not applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:

Not reactive under normal condition of storage and use.

CHEMICAL STABILITY:

Stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur under normal conditions or storage and use.

CONDITIONS TO AVOID:

Avoid contamination by any source including metals, dust and organic materials.

INCOMPATIBLE MATERIALS:

Alkalis, combustible materials, reducing materials, organic materials, acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: See component toxicity below.

COMPONENT	LD50 Oral	LC50 Dermal	LC50 Inhalation
Hydrated calcium ammonium nitrate	500 mg/kg (rat)	>2000 mg/kg (rabbit)	Not determined
Calcium chloride	500 – 1000 mg/kg (rat)	>5000 mg/kg (rabbit)	>160 mg/m ³ /4hr (rat)
Quartz; crystalline silica	Not available	Not available	Not available

SKIN CONTACT: Repeated or prolonged contact may cause irritation.
 EYE CONTACT: Strong irritant with danger of severe eye injury.
 INGESTION: Harmful if swallowed. No specific information available.
 INHALATION: May cause irritation of the upper respiratory tract. This product contains crystalline silica. Breathing silica containing dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Chronic inhalation may cause silicosis, a progressive, disabling and sometimes fatal lung disease. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease.

CARCINOGENICITY: Crystalline silica quartz, when inhaled from occupational sources, is considered as a human carcinogen by IARC (Class 1) and by NTP. ACGIH classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

TERATOGENICITY: No information available.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICITY: Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.

CHRONIC TOXICITY: Prolonged inhalation of respirable crystalline silica may cause lung disease, silicosis, lung cancer and other effects.

TARGET ORGAN EFFECTS: Respiratory system (lungs).

SECTION 12: ECOLOGICAL INFORMATION

COMPONENT	ECOTOXICITY
Hydrated calcium ammonium nitrate	LC50 (labeo boga) = 447 mg/L/48hr EC50 (daphnia magna) > 100 mg/L/48hr EC50 (heterosigma akashiwo) > 100 mg/L/72hr EC50 (microorganism) > 1000 mg/L/3hr
Calcium chloride	LC50 = 10650 mg/L/96 hr (bluegill). EC50 = 2400 mg/L/48 hr (water flea).

PERSISTENCE AND DEGRADABILITY: Not applicable to inorganic materials.

BIOACCUMULATIVE POTENTIAL: Accumulation in organisms is not expected.

MOBILITY IN SOIL: No information available.

OTHER ADVERSE EFFECTS: No known significant effects or critical hazards.

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

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 applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	None

SECTION 15: REGULATORY INFORMATION

DSL:	Listed
WHMIS 1988 CLASS:	Not controlled
TSCA:	Listed

SECTION 16: OTHER INFORMATION

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