

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **HYDROGEL 90, 125, API, PLUS**

OTHER MEANS OF IDENTIFICATION: None

RECOMMENDED USE: Drilling fluid additive

RESTRICTIONS ON USE: None

SUPPLIER IDENTIFIER: **Di-Corp**
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923

24 HR EMERGENCY PHONE NUMBER: 1-780-468-4064

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Carcinogenicity – Category 1A
STOT – RE – Category 1

LABEL SYMBOL:



SIGNAL WORD:

DANGER

CLASSIFICATION INFORMATION:

May cause cancer if inhaled.

PRECAUTIONARY STATEMENTS:

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.

Avoid breathing dust.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

In case of inadequate ventilation wear respiratory protection.

If exposed or concerned: Get medical advice/attention.

Dispose of contents and/or container in accordance with local, regional, national, and/or international regulations.

OTHER HAZARDS:

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Quartz; crystalline silica	14808-60-7	1 – 6% (w/w)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT: If irritation occurs, before breaks and when shift ends wash with soap and water. If irritation develops and persists seek medical attention.

EYE CONTACT: Flush with gently flowing warm water until particles are removed and irritation ceases. If irritation persists seek medical attention.

INGESTION:	No first aid required for ingestion of small quantities. If large amount is ingested obtain medical attention.
INHALATION:	Move to area free from dust. If breathing difficulties continue, obtain medical attention. Inhalation may aggravate existing respiratory illness.
MOST IMPORTANT SYMPTOMS /EFFECTS:	No known acute health effects. Long term inhalation of respirable crystalline silica can cause silicosis and may result in cancer.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media suitable for packaging and surrounding fire.
UNSUITABLE EXTINGUISHING MEDIA:	None.
SPECIFIC FIRE HAZARDS:	None. Product is noncombustible.
HAZARDOUS COMBUSTION PRODUCTS:	Not applicable.
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. Avoid creating dust clouds. Avoid breathing dust; wear an approved respirator. Remove and thoroughly clean contaminated clothing before rewearing.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Vacuum up, if possible, to avoid generating airborne dust. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Do not flush with water; becomes slippery when wet.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid creating dust. Avoid breathing dust; wear an approved respirator. Practice reasonable caution and personal cleanliness. Launder contaminated clothing before reuse. Slippery when wet. Empty packages contain residual hazardous material and should be handled as if full.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in cool, dry area.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Quartz; crystalline silica ACGIH TWA = 0.025 mg/m ³
ENGINEERING CONTROLS:	Maintain adequate engineering controls and/or ventilation to keep hazardous ingredient(s) below statutory limits.

RESPIRATORY PROTECTION:

PROTECTIVE GLOVES:

EYE PROTECTION:

OTHER PROTECTIVE EQUIPMENT (SPECIFY):

PERSONAL PROTECTIVE MEASURES

Wear NIOSH approved dust masks or respirators for silica bearing dust.

Personal preference.

Safety glasses with side shields recommended.

Ensure eyewash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE & COLOUR:

Gray powder

ODOUR:

Odourless

ODOUR THRESHOLD:

Not applicable

pH:

8 – 10 (5% aqueous solution)

MELTING POINT / FREEZING POINT:

Not applicable

BOILING POINT / RANGE:

Not applicable

FLASH POINT:

Not applicable

EVAPORATION RATE:

Not applicable

FLAMMABILITY:

Not flammable

FLAMMABILITY / EXPLOSIVE LIMITS:

Not applicable

VAPOUR PRESSURE:

Not applicable

VAPOUR DENSITY:

Not applicable

RELATIVE DENSITY:

2.45 – 2.55

SOLUBILITY:

Insoluble in water (forms colloidal suspension)

PARTITION COEFFICIENT:

Not available

AUTO-IGNITION TEMPERATURE:

Not applicable

DECOMPOSITION TEMPERATURE:

Not available

VISCOSITY:

Not available

PARTICLE CHARACTERISTICS:

Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:

No known dangerous reactions under normal conditions of use.

CHEMICAL STABILITY:

Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

None known.

CONDITIONS TO AVOID:

Avoid creating dust clouds.

INCOMPATIBLE MATERIALS:

Hydrofluoric acid

HAZARDOUS DECOMPOSITION PRODUCTS:

Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:

Not available.

COMPONENT TOXICITY

COMPONENT

LD50 ORAL

LD50 DERMAL

LC50 INHALATION

Quartz; crystalline silica

Not available

Not available

Not available

SKIN CONTACT:

Possible drying resulting in dermatitis.

EYE CONTACT:

May cause mechanical irritation.

INGESTION:

Low oral toxicity. No effects expected.

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:	Bentonite is not listed by ACGIH, IARC, NTP or OSHA. Crystalline silica, 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

ECOTOXICITY:	No data available.
PERSISTENCE AND DEGRADABILITY:	Not applicable to inorganic substances.
BIOACCUMULATIVE POTENTIAL:	No data available.
MOBILITY IN SOIL:	No data available.
OTHER ADVERSE EFFECTS:	No data available.

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. May be disposed of as an inert solid in a sanitary landfill in some locations: Check with local operator. Empty packages should be taken for local recycling, recover or waste disposal: Check with local waste operator.

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:	Not applicable

SECTION 15: REGULATORY INFORMATION

DSL: All ingredients are on the DSL.
TSCA: All components are listed on the inventory or are exempt.

SECTION 16: OTHER INFORMATION

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