

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **OGC-60**
OTHER MEANS OF IDENTIFICATION: None
RECOMMENDED USE: Oilwell drilling fluid and cement additive
RESTRICTIONS ON USE: None known
SUPPLIER IDENTIFIER: **Di-Corp**
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923
EMERGENCY PHONE NUMBER 24 HR: 780-468-4064

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Acute toxicity oral – Category 4
Eye irritation – Category 2B
Carcinogenicity – Category 1A
STOT – RE – Category 1

LABEL SYMBOLS:



SIGNAL WORD:

DANGER

CLASSIFICATION INFORMATION:

Harmful if swallowed.
Causes eye irritation.
May cause cancer by inhalation.
Causes damage to lungs through prolonged or repeated exposure.

PREVENTION

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wash thoroughly after handling.
Wear protective gloves / protective clothing / eye protection / face protection.
Do not eat, drink or smoke when using this product.

PRECAUTIONARY STATEMENTS:

RESPONSE
If exposed, or concerned: Get medical advice.
IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

STORAGE

Store locked up.

DISPOSAL

Dispose of contents/container in accordance with local, provincial and federal guidelines.
A natural chemical reaction during hardening develops sufficient heat that may cause severe burns in the event of contact with skin.

OTHER HAZARDS:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Calcium sulfate hemihydrate	10034-76-1	90-100% (w/w)
Crystalline silica quartz	14808-60-7	1-5% (w/w)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Quickly and gently brush away excess chemical. Thoroughly flush with running water while removing contaminated clothing. If irritation develops and persists, obtain medical attention.
EYE CONTACT:	Flush with gently flowing warm water for minimum 15 minutes. Hold eyelids open to ensure thorough flushing. Remove contact lenses, if present. Obtain medical attention when flushing is complete and no further irritation is felt.
INGESTION:	Do not induce vomiting. 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. Obtain immediate medical attention. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
MOST IMPORTANT SYMPTOMS / EFFECTS:	Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Skin contact during hardening (rehydration) may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. Ingestion may cause obstruction of the gastrointestinal tract. Long term inhalation may cause lung damage or cancer.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None known.
SPECIFIC FIRE HAZARDS:	None known. Product is not flammable.
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 including respiratory protection. Avoid creating dust clouds. Avoid discharge into sewers or waterways. If large quantity enters a waterway notify the appropriate local authorities.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect by vacuum if possible. 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 including respiratory protection. Wash thoroughly after handling. Avoid contact with skin and eyes. Avoid ingestion. Wash clothing before reuse. Avoid creating dust clouds when handling.

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

COMPONENT	EXPOSURE LIMIT
Calcium sulfate hemihydrate	ACGIH TWA = 10 mg/m ³ (inhalable fraction)
Crystalline silica quartz	ACGIH TWA = 0.025 mg/m ³ (respirable fraction)
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 required 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:	Rubber gauntlets recommended.
EYE PROTECTION:	Wear tight fitting chemical goggles. Do not wear contact lenses.
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:	Light gray to white powder
ODOUR:	Low odour
ODOUR THRESHOLD:	Not applicable
pH:	Not available
MELTING POINT / FREEZING POINT:	1450°C
BOILING POINT / RANGE:	Not available
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not applicable
FLAMMABILITY:	Not applicable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not applicable
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	2.3 – 2.7
SOLUBILITY:	0.2 – 1.0% soluble in water @ 22°C
PARTION COEFFICIENT:	Not applicable
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Reacts with water (normal condition of use)
CHEMICAL STABILITY:	Stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Not available.
CONDITIONS TO AVOID:	Avoid contact with incompatible materials. Avoid exposure to moisture.
INCOMPATIBLE MATERIALS:	Acids. Phosphorus. Diazomethane. Aluminum (at high temperatures).
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	LD50 (oral, rat) = 1581 mg/kg (estimated)
COMPONENT TOXICITY:	Calcium sulfate hemihydrate: LD50 (oral, rat) > 1581 mg/kg
SKIN CONTACT:	Skin contact during hardening (rehydration) may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.
EYE CONTACT:	Causes irritation.
INGESTION:	Harmful if swallowed. May result in mechanical obstruction.
INHALATION:	Dust may cause temporary irritation of the nose and throat.
CARCINOGENICITY:	Crystalline silica when inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans. IARC: Group 1 - carcinogenic to humans. ACGIH: Suspected human carcinogen (A2). NTP has listed crystalline silica as a known human carcinogen.
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:	This product contains naturally occurring crystalline silica (quartz). Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease. Exposure associated with most uses of this product(s) should be well below the permissible exposure limits; however, employers should perform workplace testing to determine actual exposure levels.
TARGET ORGAN EFFECTS:	Silicosis or lung cancer.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Calcium sulfate hemihydrate: LC50 > 1970 mg/L/96 hr (fathead minnow) Silica, crystalline quartz: LC50 > 10000 mg/L/96 hr (zebra danio)
PERSISTENCE AND DEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
MOBILITY IN SOIL:	Not 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 CLASS:	D2A
TSCA:	Listed

SECTION 16: OTHER INFORMATION

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