

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **FLA-6**  
OTHER MEANS OF IDENTIFICATION: None  
RECOMMENDED USE: Oilwell cement additive  
RESTRICTIONS ON USE: None  
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: Carcinogenicity – Category 1A  
STOT – RE – Category 1  
Reproductive toxicity – Category 2

LABEL SYMBOL:



SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION:

May cause cancer by inhalation.  
Causes damage to lungs through prolonged or repeated exposure by inhalation.  
May damage fertility or the unborn child.

PRECAUTIONARY STATEMENTS:

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust.  
Wear protective gloves, clothing, eye and face protection.  
Wash 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.  
Store locked up.  
Dispose of contents and/or container in accordance with local, regional and federal regulations.

OTHER HAZARDS:

Not available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Boric acid	10043-35-3	1 - 5% w/w
Quartz; crystalline silica	14808-60-7	0.01 – 1.0% 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 persists seek medical attention. Remove contaminated clothing and laundry before reuse.

EYE CONTACT:	Flush with gently flowing warm water until particles are removed and irritation ceases. If irritation persists seek medical attention.
INGESTION:	Rinse mouth thoroughly with water. Do not induce vomiting unless directed to do so by medical personnel. Give 1 glass of water to dilute material. 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 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 cause 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.
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. 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. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Launder contaminated clothing before reuse. 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

COMPONENT	EXPOSURE LIMITS
Boric acid	ACGIH TWA = 2 mg/m <sup>3</sup>
Crystalline silica, quartz	ACGIH TWA = 0.025 mg/m <sup>3</sup> (respirable fraction)
ENGINEERING CONTROLS:	Maintain adequate engineering controls and/or ventilation to keep hazardous ingredient(s) below statutory limits.
RESPIRATORY PROTECTION:	<b>PERSONAL PROTECTIVE MEASURES</b> Use NIOSH approved dust masks or respirators for silica bearing dust. Respiratory

PROTECTIVE GLOVES: protection selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected protective device. Personal preference.

EYE PROTECTION: Safety glasses with side shields or chemical goggles to prevent accidental eye contact.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Ensure eyewash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Multicoloured granules and powder

ODOUR: Little odour

ODOUR THRESHOLD: Not applicable

pH: Not available

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: Not available

SOLUBILITY: Essentially insoluble in water

PARTITION COEFFICIENT: Not available

AUTO-IGNITION TEMPERATURE: Not applicable

DECOMPOSITION TEMPERATURE: Not applicable

VISCOSITY: 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: Not available.

INCOMPATIBLE MATERIALS: Strong acids and strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

## SECTION 11: TOXICOLOGICAL INFORMATION

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Boric acid	2660 mg/kg (rat)	>2000 mg/kg (rabbit)	Not available
Silica, crystalline quartz	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:	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:	Boric acid animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Boric acid studies in rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those to which humans would normally be exposed.
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	Not available
PERSISTENCE AND DEGRADABILITY:	Not applicable to inorganic substances.
BIOACCUMULATIVE POTENTIAL:	Not expected to bioaccumulate.
MOBILITY IN SOIL:	Essentially insoluble in water and thus presents a low mobility in most soils.
OTHER ADVERSE EFFECTS:	Not 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. Empty packages should be taken for local recycling, recover or waste disposal: Check with local waste operator.

## SECTION 14: TRANSPORTATION INFORMATION

UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not regulated for transport
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, or exempt from, the DSL.
WHMIS 1988 CLASSIFICATION:	D2A
TSCA:	All components are listed on the inventory or are exempt.

**SECTION 16: OTHER INFORMATION**

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