

# Material Safety Data Sheet / Fiche signalétique

WESTCOAST DRILLING SUPPLIES LTD.  
8069 River Way, Delta, British Columbia,  
Canada V4G 1L3  
Ph. (604) 940-6050 Fax (604) 940-6080

EMERGENCY 1-800-665-6645

## SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: **CALCIUM CHLORIDE FLAKE**  
CHEMICAL FAMILY: Calcium Chloride (77%)  
WHMIS CLASSIFICATION: Class D-2(B)  
WORK PLACE HAZARD: Skin and Eye Irritant

## TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Dangerous Goods  
PACKAGE GROUP: Not applicable  
PRODUCT IDENTIFICATION NUMBER (PIN): Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENTAGE	CAS NUMBER	LD50	LC50
Calcium Chloride	>90%	10043-52-4	1090 mg/kg	Not determined
Strontium Chloride	1%	10476-85-1		Not determined

## SECTION III: TOXICOLOGICAL PROPERTIES

### ROUTE OF ENTRY:

[XXX] Skin, [XXX] Eye Contact, [ ] Inhalation, [ ] Ingestion

### SKIN CONTACT:

Prolonged or repeated contact with the dust may irritate the skin or cause burns especially if skin is moist or if material is confined to the skin.

### EYE CONTACT:

Dusts may cause moderate to severe eye irritation with corneal injury that may be slow to heal.

### INHALATION:

Breathing dust may irritate the nose and throat and cause coughing and chest discomfort.

### INGESTION:

Swallowing solids may cause gastrointestinal irritation or ulceration.

## SECTION IV: FIRST AID MEASURES

**SKIN CONTACT:** Immediately wash skin with plenty of soap and water. Remove contaminated clothing and footwear; wash before reuse. Get medical attention if irritation persists after washing.

**EYE CONTACT:** Flush material out immediately then get medical attention. Immediately flush eyes with large amounts of water for fifteen (15) minutes, holding lids apart to ensure flushing of the entire surface.

**INHALATION:** Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

**INGESTION:** In conscious, immediately induce vomiting. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

## SECTION V: PHYSICAL DATA

APPEARANCE AND ODOR: White to off white pellets; odorless  
DENSITY (SPECIFIC GRAVITY): 2.2  
BOILING POINT: 204° C  
MELTING POINT: Not applicable  
WATER SOLUBILITY: Very  
% VOLATILE BY VOLUME: Not applicable  
EVAPORATION RATE: Not applicable



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## CALCIUM CHLORIDE FLAKE

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VAPOR PRESSURE (mm Hg):	Not applicable
VAPOR DENSITY (Air = 1):	Not applicable
pH:	Not determined

### SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not applicable
FLAMMABLE LIMIT:	Not applicable
EXTINGUISHING MEDIA:	Nor a combustible material.
SPECIAL FIRE FIGHTING PROCEDURES:	Self-contained respirators required for fire fighting personnel.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None

### SECTION VII: REACTIVITY DATA

STABLE [XXX] INSTABLE [ ]	
INCOMPATIBILITY (CONDITIONS TO AVOID):	Decomposes above 204° C
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur [XXX] May occur [ ]

### SECTION VIII: PREVENTATIVE MEASURES

RESPIRATORY PROTECTION:	Approved dust respirator or mask.
VENTILATION:	Local mechanical exhaust.
PROTECTIVE GLOVES:	Rubber gloves.
EYE PROTECTION:	Chemical goggles.
OTHER PROTECTIVE EQUIPMENT:	An eyewash and safety shower should be nearby and ready for use.

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool, very dry place. Keep container tightly closed when not in use. Wash thoroughly after handling. Do not get in eyes, on skin or on clothing.

#### STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

Wear protective equipment. For small spills, sweep up and dispose of in approved waste containers. For large spills, shove into approved waste containers.

#### WASTE DISPOSAL METHOD:

Dispose of contaminated product and material used in cleaning up spills or leaks in manner approved for this material. Consult appropriate regulatory agencies to ascertain proper disposal procedures.

### SECTION IX: PREPARATION

The information contained herein is given in good faith, but no warranty, expressed or implied is made.

DATE ISSUED: November 24, 1988

BY: Product Safety Committee

DATE REVISED: April 1, 2000

Review date:

Authorized by:

*Handwritten signature: March 31/03*  
*Handwritten signature: Alan Lalonde*

# Material Safety Data / Fiche signalétique

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*Attn: Jim*

## SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: **X-TRA GEL**  
CHEMICAL FAMILY: Sodium Montmorillonite  
WHMIS CLASSIFICATION: Class D-2(A)  
WORK PLACE HAZARD: Potential Carcinogen; contains free silica

## TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Dangerous Goods  
PACKAGE GROUP: Not applicable  
PRODUCT IDENTIFICATION NUMBER (PIN): Not applicable

## SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENTAGE	CAS NUMBER	OSAH PEL	ACGIH TLV
Bentonite		1302-78-9	5 mg/M	Not applicable
Quartz (Silica)		14808-60-7	10 mg/M	0.1 mg/M
Crystobalite		14464-46-1	10 mg/M	0.05 mg/M
Tridymite		15468-32-3	10 mg/M	0.05 mg/M

## SECTION III: TOXICOLOGICAL PROPERTIES

### ROUTE OF ENTRY:

[ ] Skin, [ ] Eye Contact, [XXX] Inhalation, [ ] Ingestion

### ACUTE - SHORT TERM EXPOSURE:

Cough if exposed to dust at levels higher than TLV's.

### CHRONIC - LONG TERM EXPOSURE:

May lead to development of silicosis or other respiratory problems if consistently exposed to free silica containing airborne bentonite.

## SECTION IV: FIRST AID MEASURES

No first aid measures are suggested for chronic (long term exposure). For acute (short term exposure) remove patient from dusty environment.

## SECTION V: PHYSICAL DATA

APPEARANCE AND ODOR: Pale gray to buff powder or granules; Odorless.  
DENSITY (SPECIFIC GRAVITY): 2.35  
BOILING POINT: Not applicable  
MELTING POINT: 788° C  
WATER SOLUBILITY: Insoluble; forms colloidal suspension.  
% VOLATILE BY VOLUME: Not applicable  
EVAPORATION RATE: Not applicable  
VAPOR PRESSURE: (mm Hg) Not applicable  
VAPOR DENSITY: (Air = 1) Not applicable  
pH: 7 - 6

## SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable  
FLAMMABLE LIMIT: Not applicable



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Toll Free: 1-800-663-8845

**X-TRA GEL**

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EXTINGUISHING MEDIA: Not applicable  
SPECIAL FIRE FIGHTING PROCEDURES: Not applicable  
UNUSUAL FIRE AND EXPLOSION HAZARDS: Not applicable

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**SECTION VII: REACTIVITY DATA**

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STABLE [XXX] INSTABLE [ ]  
INCOMPATIBILITY (CONDITIONS TO AVOID): None  
HAZARDOUS DECOMPOSITION PRODUCTS: None  
HAZARDOUS POLYMERIZATION: Will not occur [XXX] May occur [ ]

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**SECTION VIII: PREVENTATIVE MEASURES**

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RESPIRATORY PROTECTION: NIOSH/MSHA approved respirators for silica bearing dust.  
VENTILATION: Yes if particular; Personal air supply may be useful.  
PROTECTIVE GLOVES: None required  
EYE PROTECTION: Suggest goggles  
OTHER PROTECTIVE EQUIPMENT: None required

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Avoid breathing dust; wear an approved respirator. Practice reasonable caution and personal cleanliness. Avoid eye contact.

**STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:**

Vacuum or sweep up if dry. Avoid flushing with water as material may become extremely slippery.

**WASTE DISPOSAL METHOD:**

Dispose of material in a manner to prevent generating dust.

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**SECTION IX: PREPARATION**

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DATE ISSUED: November 10, 1988

BY: Product Safety Committee

DATE REVISED: April 1, 2000

Review date: March 31/03Authorized By: Alan Lalonde