nuB2WET0002

Product Information



15640 Mountainview Dr., White Rock, BC V4P 2W9 • Tel: (604) 535-6699 Fax: (604) 535-5493

Extreme Triple E

Extreme Torque Reducer

Description

Extreme Triple E is a liquid, non foaming, extreme pressure lubricant which is Effective, Environment Friendly, Economical.

Principle Use

Extreme Triple E is used in all holes where torque, drag and sticking occur. Effective in all conditions where extreme pressure causes friction, vibration and rod chatter. Outstanding lubricating qualities mean it is economical to use. Extreme Triple E is environmentally friendly.

Mixing

Initial treatments of 4 to 6 liters of Extreme Triple E per 250 gallons of water is recommended. Amounts thereafter may be reduced depending on conditions. Extreme Triple E can be added at regular intervals or allowed to drip into the suction tank at a rate of 2 to 4 liters per hour. Undiluted batch treatments added directly to the drill rods are very effective in certain situations of sudden, high torque.

Packaging

Extreme Triple E is packaged in 20 Liter high impact plastic containers with a wide mouth screw on cap. 32 Pails per pallet.

MATERIAL SAFETY DATA SHEET



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EMERGENCY PHONE NO. (604) 535-6699

PAGE 1 OF 4

WHMIS HAZARD INDEX:

DEGREE OF HAZARD:	HAZARD RATING:

HEALTH 0 0 LEAST FIRE 1 1 SLIGHT REACTIVITY 2 **MODERATE** 0 OTHER: HIGH B (GLASSES & GLOVES) 3 **EXTREME**

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: EXTREME TRIPLE E

CHEMICAL IDENTIFICATION: Proprietary

MATERIAL USE: Extreme Pressure Lubricant

WHMIS CLASSIFICATION: Not Controlled

WORK PLACE HAZARD: N/A

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Dangerous Goods

PACKAGE GROUP: N/A
CAS NUMBER: N/A
MSDS CODE: N/A

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT: Not Hazardous

PERCENTAGE: N/A
CAS NUMBER: N/A
LD (50): N/A
LC (50): N/A

EXTREME TRIPLE E

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: Dark Brown, Distinctive

DENSITY (SPECIFIC GRAVITY): .88
BOILING POINT: > 290°C

MELTING POINT: N/A

SOLUBILITY: Complete

EVAPORATION RATE: (EE=1): N/A
VAPOUR PRESSURE: (MM HG): N/A
VAPOUR DENSITY: (AIR = 1): N/A

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: 285°C

FLAMMABLE LIMIT: N/A
AUTO IGNITION TEMP: N/A

EXTINGUISHING MEDIA: Dry Chemical, Foam, Waterspray, CO₂

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained respirators for fire fighting

personnel

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable INCOMPATIBILITY (CONDITIONS TO AVOID): None

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of sulphur on combustion

EXTREME TRIPLE E

MATERIAL SAFETY DATA SHEET

SECTION 6

HEALTH HAZARDS

ROUTE OF ENTRY:

(X) SKIN

(X) EYE CONTACT

(X) INHALATION

(X) INGESTION

SKIN CONTACT:

EYE CONTACT:

INHALATION:

INGESTION:

May dry skin

May cause irritation

Mist or spray may cause respiratory irritation

No adverse affects in small quantities

SECTION 7

PREVENTATIVE MEASURES

SKIN PROTECTION:

EYE PROTECTION:

VENTILATION:

Standard work clothes and gloves

Wear goggles in presence of mist or spray

Not normally required, 10 changes per hour if

enclosed area.

RESPIRATORY PROTECTION:

In absence of proper ventilation recommend

approved organic vapour type respirator.

LEAK & SPILL PROCEDURE:

Use absorbent materials for small spills. Dike

larger spills and use dry earth or other absorbent

material for pick up.

WASTE DISPOSAL:

Dispose of in compliance with government

regulations and local requirements.

STORAGE REQUIREMENTS:

Store in a cool dry area.

EXTREME TRIPLE E

MATERIAL SAFETY DATA SHEET

SECTION 8

FIRST AID MEASURES

SKIN:

EYE:

INHALATION:

INGESTION:

Wash thoroughly with soap and water.

Flush immediately with large amounts of water.

Remove subject to fresh air.

Do not induce vomiting, contact physician. Not

Toxic.

SECTION 9

PREPARATION DATE

DATE ISSUED:

AUGUST 20, 1996

BY:

PRODUCT SAFETY COMMITTEE

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DATE REVISED:

Product Information



15640 Mountainview Dr., White Rock, BC V4P 2W9 • Tel: (604) 535-6699 Fax: (604) 535-5493

Extreme Alkamer

Liquid Drilling Mud Additive

Description

Extremely High Molecular weight, Anionic, Polyacrylamide in liquid form. Exceptional freeze - thaw stability. Very rapid mixing and high yield viscosity.

Principle Use

Best choice for fast acting, single product mixed with water. Provides exceptional lubrication and torque reduction. Lifts cuttings and enhances hole cleaning capabilities. Stabilizes weak formations. Excellent encapsulating polymer prevents clays and shales from swelling and becoming 'sticky'. Used with foam to make a stiff, stable, foam drilling fluid. Used with Extreme Gel Extra High Yield Bentonite to improve hole cleaning, hole stability and to control clays and shales. Environment Friendly.

Mixing

Add 1 liter of Extreme Alkamer per 250 gallons of fresh water while mixer is on high. If hole conditions require, increase the amount of Extreme Alkamer added to each tank. If combining Extreme Alkamer with Bentonite, always add the Bentonite first and allow to mix well before adding Extreme Alkamer.

Packaging

Extreme Alkamer comes packaged in a 20 liter, high impact plastic container with a widemouth screw-on cap. 32 pails per pallet.

MATERIAL SAFETY DATA SHEET



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WHMIS HAZARD INDEX:

DEGREE OF HAZARD: HAZARD RATING:

HEALTH 1 0 LEAST FIRE 1 SLIGHT

REACTIVITY 0 2 MODERATE

OTHER: B (GLASSES & GLOVES) 3 HIGH

4 EXTREME

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: EXTREME ALKAMER

CHEMICAL IDENTIFICATION: Anionic copolymer of acrylamide, and acrylate

emulsion

MATERIAL USE: Viscosifier, clay inhibitor

WHMIS CLASSIFICATION: Class D-2(B)
WORK PLACE HAZARD: Skin, eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not dangerous goods

PACKAGE GROUP: Not applicable
CAS NUMBER: 25085-02-3
MSDS CODE: Not available

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT: MINERAL SPIRITS ALKYL PHENOL ETHOXYLATE PERCENTAGE: 20 -40 3 - 7

CAS NUMBER: 64742-47-8 9016-45-9 LD (50): 6480 Mg/Kg. 3000 Mg/Kg.

LC (50): Not available Not determined

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: Off white liquid, mild odour

DENSITY (SPECIFIC GRAVITY): Less than 1.0

BOILING POINT: 290°C

MELTING POINT: Not applicable

SOLUBILITY: Soluble

EVAPORATION RATE: (EE=1):

VAPOUR PRESSURE: (MM HG):

Not available

Not available

VAPOUR DENSITY: (AIR = 1): Not available

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: > 200°C

FLAMMABLE LIMIT: Not available

AUTO IGNITION TEMP: No data

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water spray,

water will cause extreme slipperiness

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained respirators for fire fighting

personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sensitivity to static charge.

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing and reducing agents

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Not available

MATERIAL SAFETY DATA SHEET

SECTION 6 **HEALTH HAZARDS**

ROUTE OF ENTRY:

(X) SKIN

(X) EYE CONTACT

() INHALATION

(X) INGESTION

SKIN CONTACT:

May be minimally irritating to sensitive skin upon

direct contact.

EYE CONTACT:

May cause stinging, burning of eyes and lids,

inflammation and discomfort.

INHALATION:

INGESTION:

Not available.

May cause nausea, vomiting.

SECTION 7

PREVENTATIVE MEASURES

SKIN PROTECTION:

EYE PROTECTION:

VENTILATION:

Impervious gloves, protective clothing as required

None required for normal use. 10 changes per

Chemical goggles.

None required for normal use. Otherwise RESPIRATORY PROTECTION:

approved organic vapour-type respirator.

LEAK & SPILL PROCEDURE:

Eliminate sources of ignition. Absorb with earth or

sand and dispose with solid waste. Wash site after

collection.

hour.

Dispose in compliance with government WASTE DISPOSAL:

regulations and local requirements.

STORAGE REQUIREMENTS:

Cool, dry area, away from sources of heat,

oxidizing and reducing agents. Keep containers

closed when not in use.

MATERIAL SAFETY DATA SHEET

SECTION 8

FIRST AID MEASURES

SKIN:

EYE:

INHALATION:

INGESTION:

Wash thoroughly with soap and warm water

Flush with water for at least 15 minutes.

Vapour pressure is negligible. Remove victim from

further exposure.

Do not induce vomiting. If conscious, dilute by

giving two glasses of water. Seek medical

attention.

SECTION 9

PREPARATION DATE

DATE ISSUED:

AUGUST 20, 1996

BY:

PRODUCT SAFETY COMMITTEE

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DATE REVISED:

MATERIAL SAFETY DATA SHEET

ADDENDUM

SECTION 10

ECOLOGICAL INFORMATION

This product has very low acute toxicity.

ACUTE TOXICITY:

Oral:

Dermal:

Inhalation:

IRRITATION:

- Skin:

- Eyes:

SENSITIZATION:

LD50/oral/rat > 5000 mg/kg

The product is not toxic in contact with the skin.

The product is not expected to be toxic by

inhalation.

The results obtained using OECD test 404

demonstrated that the product was irritating to the

skin.

Irritating to eyes.

The product is not expected to be sensitizing.

ECOTOXICITY

The product has very low toxicity to aquatic organisms or to the aquatic environment. However, as with all chemical products, do not introduce directly into the environment.

Fish:

Algae:

Daphnie:

Bioaccumulation:

Persistence / degradability:

LC50 / Fathead minnows / 96 hours > 1000 mg/l

EC50 / 72h / Phesodactylum tricournumtum >

1000 ma/l

LC50 / 48h / Chastogrammus marinus ≥ 15 mg/l

The product is not expected to bioaccumulate.

Not readily biodegradable.



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Drilling Fluids Engineer

Drilling Mud Products & Additives, Extreme Heat Water Line & Camp Heaters
Plus other Drilling Supplies

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: Drilling Salt

PRODUCT USE: Drilling Mud Additive

CHEMICAL FAMILY: Sodium Chloride

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not a Controlled Product Under WHMIS

WORK PLACE HAZARD: Not Applicable

TRANSPORTATION OF DANGEROUS GOODS (TDG)

TDG CLASSIFICATION: Not Dangerous Goods PACKAGE GROUP: Not Applicable

PRODUCT IDENTIFICATION NUMBER (PIN): Not Applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT PERCENT

CAS NUMBER

LD(50)

LC(50)

No Hazardous Ingredients

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:[XX]SKIN [XX]EYE CONTACT [XX]INHALATION [XX]INGESTION

EYE CONTACT:

Mechanical irritation, watering of eyes and inflammation of

conjunctivas.

SKIN CONTACT:

Irritation, inflammation, and small ulcerations.

INHALATION:

Slight irritation of nose and sneezing.

INGESTION:

Disagreeable taste, nausea and vomiting. Large amounts can cause

irritation of the stomach.

SECTION IV: FIRST AID MEASURES

EYE CONTACT:

Flush with water, consult a physician.

SKIN CONTACT:

Flush with water.

INHALATION:

Consult a physician.

INGESTION:

Consult a physician.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR

: Solid white; odourless

SPECIFIC GRAVITY BOILING POINT (°C)

: 2.165 : 1413 °C

MELTING POINT (°C)

: 804 °C

SOLUBILITY IN WATER

: 1 g/2.8 ml pH: 6.7-7.3

PERCENT VOLATILE BY VOLUME

: None

EVAPORATION RATE

: Not Applicable : 1.0 mm @ 865 °C

VAPOUR PRESSURE (mm Hg)

VAPOUR DENSITY (Air = 1): Not Applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT

: Not Applicable

FLAMMABLE LIMITS

: Not Applicable

EXTINGUISHING MEDIA

: Not Applicable

SPECIAL FIRE FIGHTING PROCEDURES

: Self-contained respirators required for

fire fighting personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not Applicable

SECTION VII: REACTIVITY DATA

Unstable []

STABILITY: Stable [XX]

INCOMPATIBILITY (CONDITIONS TO AVOID) : HAZARDOUS DECOMPOSITION PRODUCTS

Lithium, bromine triflouride

HAZARDOUS POLYMERIZATION: Will Not Occur [XX]

Chlorine, sodium oxide May Occur []

VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Suggest NIOSH/MESA approved dust

mask

VENTILATION : None Required

PROTECTIVE GLOVES : Suggest plastic or rubber

EYE PROTECTION : Suggest goggles
OTHER PROTECTIVE EQUIPMENT (Specify) : None Required

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep dry until used.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

No special procedure required.

WASTE DISPOSAL METHOD

Dispose of material in accordance with local ordinances. Landfill is suggested.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: February 22, 1989 BY: Product Safety Committee

Product Information



15640 Mountainview Dr., White Rock, BC V4P 2W9 • Tel: (604) 535-6699 Fax: (604) 535-5493

Extreme Number One

Granular Drilling Mud Polymer

Description

Ultra High Grade, Anionic, Acrylamide Copolymer in the form of a free flowing coarse white powder.

Principle Use

The Number One choice for demanding hole conditions when Bentonite is unavailable or unwanted. A one product drilling fluid. Excellent for winter. Product does not freeze in container. Economical. Ultra High Grade means less product required on jobs and less product to fly into remote sites. Lifts cuttings and stabilizes the hole. Reduces torque and drag in the hole. Greatly reduces swelling of clays and shales. Can be used to make stiff foam for air drilling. Environment Friendly. Extremely Effective.

Mixing

Add a small amount of Extreme Number One to water in the mixing tank. Sprinkle slowly into turbulent water when mixer is on high. Increase the quantity added of Extreme Number One if hole conditions are difficult. For fast mixing, add Extreme Number One to a small amount of vegetable oil first and then pour quickly into turbulent water.

Packaging

Extreme Number One comes in 5 gallon, high impact plastic pails with a snap-on lid. 24 pails per pallet.

MATERIAL SAFETY DATA SHEET



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WHMIS HAZARD INDEX:

DEGREE OF HAZARD: HAZARD RATING:

LEAST 0 HEALTH 1 SLIGHT FIRE 0 1 2 MODERATE REACTIVITY 0 B (GLASSES & GLOVES) 3 HIGH OTHER:

THER: B (GLASSES & GLOVES) 3 FIGH

4 EXTREME

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: EXTREME NUMBER ONE

CHEMICAL IDENTIFICATION: Acrylamide, Acrylate Copolymer

MATERIAL USE: Drilling Fluid Additive

WHMIS CLASSIFICATION:

WORK PLACE HAZARD:

Not Regulated
Not Applicable

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Dangerous Goods

PACKAGE GROUP:

CAS NUMBER:

MSDS CODE:

Not Applicable

Not Applicable

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT: None Considered Hazardous

PERCENTAGE:

CAS NUMBER:

LD (50):

Not Available

Not Available

Not Available

Not Available

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: Slight, mild odour, white, granular solid

DENSITY (SPECIFIC GRAVITY): .80

BOILING POINT:

MELTING POINT:

Not Available

Not Available

SOLUBILITY: Soluble

EVAPORATION RATE: (EE=1):

VAPOUR PRESSURE: (MM HG):

Not Available

NAPOUR PENSITY: (AIR 4):

VAPOUR DENSITY: (AIR = 1): Not Available

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: Not Applicable

FLAMMABLE LIMIT: Not Available AUTO IGNITION TEMP: No Data

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide, Foam

SPECIAL FIRE FIGHTING PROCEDURES: Self-Contained Respirators For Fire Fighting

Personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of incomplete combustion and oxides of

nitrogen and carbon.

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents and highly alkaline

solutions

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: None

MATERIAL SAFETY DATA SHEET

SECTION 6 HEALTH HAZARDS

ROUTE OF ENTRY:

(X) SKIN

(X) EYE CONTACT

(X) INHALATION

(X) INGESTION

SKIN CONTACT:

EYE CONTACT:

INHALATION:

May be minimally irritating to sensitive skin upon

prolonged direct contact.

May be minimally irritating to eyes upon direct

contact.

May cause irritation to nose and throat.

SECTION 7 PREVENTATIVE MEASURES

SKIN PROTECTION: EYE PROTECTION:

VENTILATION:

RESPIRATORY PROTECTION: LEAK & SPILL PROCEDURE:

WASTE DISPOSAL:

STORAGE REQUIREMENTS:

Impervious gloves, protective clothing as required Goggles.

General mechanical; 10 changes per hour.

Approved dust mask; MESA type

Ventilate area, wear rubber boots, gloves and a self-contained respirator if ventilation inadequate. Collect into waste container, wash site after pick

up. Water solutions extremely slippery. Dispose in compliance with government

regulations and local requirements.

Cool, dry area, away from oxidizing and reducing agents. Keep containers closed when not in use. Avoid prolonged contact when handling. Do not

inhale dust.

MATERIAL SAFETY DATA SHEET

SECTION 8 FIRST AID MEASURES

SKIN: Wash thoroughly with soap and warm water

EYE: Flush with water for at least 15 minutes. Seek

medical attention.

INHALATION: Remove to fresh air. if not breathing, give artificial

respiration. If breathing is difficult, give oxygen.

Seek medical attention.

INGESTION: Do not induce vomiting. If conscious, dilute by

giving two glasses of water. Seek medical

attention.

SECTION 9 PREPARATION DATE

DATE ISSUED: AUGUST 20, 1996

BY: PRODUCT SAFETY COMMITTEE

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DATE REVISED:

MATERIAL SAFETY DATA SHEET

ADDENDUM

SECTION 10

ECOLOGICAL INFORMATION

ACUTE TOXICITY:

- Oral:

Dermal:

Inhalation:

IRRITATION:

- Skin:

Eyes:

SENSITIZATION:

CHRONIC TOXICITY:

ECOTOXICITY

Fish:

Algae:

Bioaccumulation:

Persistence / degradability:

LD50/oral/rat > 5000 mg/kg

The results of lab testing showed this material to be non-toxic even at high dose levels.

The product is not expected to be toxic by inhalation.

The results of lab testing showed this material to be non-irritating to the skin.

Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have no conjuctivae.

The results of lab testing showed this material to be non-sensitizing.

The results of extensive lab testing did not reveal adverse health effects.

LC50 / Fathead minnows / 96 hours > 1000 mg/l EC50 / Selenastrum capricornutum > 96 hours > 500 ma/l

The product is not expected to bioaccumulate. Not readily biodegradable.

Product Information



15640 Mountainview Dr., White Rock, BC V4P 2W9 • Tel: (604) 535-6699 Fax: (604) 535-5493

Extreme Gel

Extra High Yield Bentonite

Description

Premium Grade, Wyoming Bentonite (Sodium Montmorillonite). Specially blended and beneficiated for fast mixing, better hole stability and extra high yield viscosity.

Principle Use

Extra High Yield means less quantity required to yield high viscosity and greater hole cleaning. Produces tough, leather-like filter cake on bore hole for excellent hole stability. Enhances fluid loss formations. permeable friable characteristics to protect and Eliminates seepage loss to permeable zones and greatly reduces lost circulation conditions. Primary ingredient used with foam to make gel-foam drilling fluid. Dry product can be sprinkled on the bottom and sides of a dug-out, ditch or depression to form a water proof barrier for use as a holding pit.

Mixing

Water should be fresh (no calcium or salt) and neutral pH (7.0). Add soda ash if required to adjust calcium and pH. Turn mixer on high and add 50 lbs. Extra High Yield Bentonite per 250 gallons of water. Pour Bentonite into turbulent water at a rate of 3 min. per bag. Increase the amount of Bentonite added if conditions require.

Packaging

Extreme Gel Extra High Yield Bentonite comes packaged 50 lbs. in a strong, multi-walled paper bag with a moisture barrier lining. 48 bags per pallet.

MATERIAL SAFETY DATA SHEET



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EMERGENCY PHONE NO. (604) 535-6699

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WHMIS HAZARD INDEX:

DEGREE OF HAZARD: HAZARD RATING:

HEALTH 1 0 LEAST FIRE 0 1 SLIGHT REACTIVITY 1 2 MODERATE

OTHER: B (GLASSES & GLOVES) 3 HIGH

4 EXTREME

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: EXTREME GEL

CHEMICAL IDENTIFICATION:

MATERIAL USE:

Sodium Montmorillonite

Drilling Mud Additive

WHMIS CLASSIFICATION: D-2(A)

WORK PLACE HAZARD:

Low concentrations of free silica in airborne dust.

Limited evidence as a Carcinogen from inhaled

crystalline silica.

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Dangerous Goods

PACKAGE GROUP:

CAS NUMBER:

MSDS CODE:

Not Applicable

Not Applicable

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT:	Crystalline Silica (SiO ₂)	Crystobalite	Tridymite	Bentonite Dust
PERCENTAGE:	See Below	See Below	See Below	See Below
CAS NUMBER:	14808-60-7	14469-46-1	15468-32-3	1302-78-9
LD (50):	Not Determined	Not Determined	N/D	N/D
LC (50):	Not Determined	Not Determined	N/D	N/D
OSHA PEL:	.1 mg/M ³	.05 mg/ M ³	.05 mg/ M ³	5 mg/M³
ACGIH TVI	1 mg/M^3	05 mg/M^3	05 mg/M^3	N/D

EXTREME GEL

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: Bluegray to green as moist solid, light tan to gray

as dry powder. No odour.

DENSITY (SPECIFIC GRAVITY): 2.4 - 2.55

BOILING POINT:

Not Applicable

MELTING POINT:

Approx. 1450°C

SOLUBILITY: Insoluble, forms colloidal suspension.

EVAPORATION RATE: (EE=1): N/A
VAPOUR PRESSURE: (MM HG): N/A
VAPOUR DENSITY: (AIR = 1): N/A

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: N/A
FLAMMABLE LIMIT: N/A
AUTO IGNITION TEMP: N/A

EXTINGUISHING MEDIA: None for product. Any media for packaging.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Product becomes slippery when wet.

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable INCOMPATIBILITY (CONDITIONS TO AVOID): None HAZARDOUS POLYMERIZATION: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

EXTREME GEL

MATERIAL SAFETY DATA SHEET

SECTION 6 HEALTH HAZARDS

ROUTE OF ENTRY:

(X) SKIN (X) EYE CONTACT (X) INHALATION (X) INGESTION

SKIN CONTACT: Possible drying resulting in dermatitis.

EYE CONTACT: Mechanical Irritant

INHALATION: Acute (short term): Dust levels exceeding PEL

may cause irritation of upper respiratory tract. Chronic (long term): Exposure to dust levels higher than TLV may lead to silicosis or other

respiratory problems.

INGESTION: No adverse effects.

SECTION 7 PREVENTATIVE MEASURES

SKIN PROTECTION: Generally not necessary.

EYE PROTECTION: Goggles may be preferred if dusty conditions

develop.

VENTILATION: Mechanical, general room ventilation. Use local

ventilation to maintain REL's/TLV's.

RESPIRATORY PROTECTION: Use respirators approved by NIOSH/MSHA for

silica dust.

LEAK & SPILL PROCEDURE: Avoid breathing dust. Wear silica approved

respirator. Vacuum up to avoid generating dust. Avoid using water, product becomes slippery.

WASTE DISPOSAL: Dispose of in compliance with local and

government regulations.

STORAGE REQUIREMENTS: Store in dry area. Product becomes slippery when

wet.

MATERIAL SAFETY DATA SHEET

EXTREME GEL

SECTION 8 FIRST AID MEASURES

SKIN: Wash with soap and water until clean. EYE: Flush with water until irritation ceases.

INHALATION: Move to dust free area. Inhalation may aggravate

existing respiratory illness. Seek medical attention

if symptoms persist.

INGESTION: No adverse effects from small quantities.

SECTION 9 PREPARATION DATE

DATE ISSUED: AUGUST 20, 1996

BY: PRODUCT SAFETY COMMITTEE

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DATE REVISED:



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Drilling Fluids Engineer

Drilling Mud Products & Additives, Extreme Heat Water Line & Camp Heaters Plus other Drilling Supplies

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: CALCIUM CHLORIDE FLAKE

PRODUCT USE: Drilling Mud Additive

CHEMICAL FAMILY: Calcium Chloride (77%)

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: D-2(B)

WORK PLACE HAZARD: Skin and Eve Irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

TDG CLASSIFICATION: Not Dangerous Goods PACKAGE GROUP: Not Applicable

PRODUCT IDENTIFICATION NUMBER (PIN): Not Applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	CAS NUMBER	LD(50)	<u>LC(50)</u>
Calcium Chloride	> 9 0%	10043-52-4	1090 mg/kg	Not Determined
Snontium Chloride	1	10476-85-1		Not Determined

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: [XX]SKIN [XX]EYE CONTACT []INHALATION []INGESTION

Prolonged or repeated contact with the dust may irritate the skin or SKIN CONTACT:

cause burns especially if skin is moist or if material is confined to

skin.

Dusts may cause moderate to severe eye irritation with corneal injury EYE CONTACT:

that may be slow to heal.

Breathing dust may irritate the nose and throat and cause coughing and INHALATION:

chest discomfort.

PAGE 2 - CALCIUM CHLORIDE FLAKE

INGESTION:

Swallowing solids may cause gastrointestinal irritation or ulceration.

CHRONIC EFFECTS OF EXPOSURE: No specific information available.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

SECTION IV: FIRST AID MEASURES

EYES:

GET IMMEDIATE MEDICAL ATTENTION. Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower

eyelids occasionally.

SKIN:

Immediately wash skin with lots of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical

attention if irritation persists after washing.

INHALATION:

Remove to fresh air. Give artificial respiration if not breathing. GET

IMMEDIATE MEDICAL ATTENTION.

INGESTION:

If 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 ODOUR

: White to off-white pellets; odourless

SPECIFIC GRAVITY BOILING POINT (°C) : 2.2 : >204

MELTING POINT (°C)

: Not Applicable

SOLUBILITY IN WATER

: Very pH: Not Determined

PERCENT VOLATILE BY VOLUME

: Not Applicable

EVAPORATION RATE

: Not Applicable

VAPOUR PRESSURE (mm Hg)

: Not Applicable

VAPOUR DENSITY (Air = 1)

: Not Applicable

PAGE 3 - CALCIUM CHLORIDE FLAKE

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : Not Applicable FLAMMABLE LIMITS : Not Applicable

EXTINGUISHING MEDIA : This material is not combustible

SPECIAL FIRE FIGHTING PROCEDURES : Self-contained respirators required for

fire fighting personnel

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION VII: REACTIVITY DATA

STABILITY: Stable [XX] Unstable []

INCOMPATIBILITY (CONDITIONS TO AVOID): Decomposes above 204 °C

HAZARDOUS DECOMPOSITION PRODUCTS : None

HAZARDOUS POLYMERIZATION: Will Not Occur [XX] May Occur []

VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Approved dust respirator or mask

VENTILATION : Local mechanical exhaust

PROTECTIVE GLOVES : Rubber gloves

EYE PROTECTION : Chemical goggles

OTHER PROTECTIVE EQUIPMENT (Specify) : An eyewash and safety shower should

be nearby and ready for use.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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 THE MATERIAL IS SPILLED OR RELEASED

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

PAGE 4 - CALCIUM CHLORIDE FLAKE

WASTE DISPOSAL METHOD

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

SECTION IX: PREPARATION

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DATE ISSUED: November 24, 1998 BY: Product Safety Committee



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Drilling Fluids Engineer Drilling Mud Products & Additives, Extreme Heat Water Line & Camp Heaters Drill Pipe, DTH Hammers & Bits, Grout Tubing, Portable Buildings

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: BARITE

PRODUCT USE: Drilling Mud Additive

CHEMICAL FAMILY: Barium Sulphate; Barite

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not a Controlled Product Under WHMIS

WORK PLACE HAZARD: Not Applicable

TRANSPORTATION OF DANGEROUS GOODS (TDG)

TDG CLASSIFICATION: Not Dangerous Goods PACKAGE GROUP: Not Applicable

PRODUCT IDENTIFICATION NUMBER (PIN): Not Applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT

PERCENT

CAS NUMBER

LD(50)

LC(50)

No Hazardous Ingredients

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: []SKIN []EYE CONTACT [XX]INHALATION []INGESTION

Cough if exposed t dust at levels higher than TLV's ACUTE (Short Term Exposure):

CHRONIC (Long Term Exposure): According to Mountain Minerals Company Ltd., this Barite does not contain respirable crystalline silica in

amounts considered significant under WHMIS guidelines.

PAGE 2 - BARITE

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 ODOUR : Grey white powder; Dirt-dust like odour

SPECIFIC GRAVITY : 4.20

: Not Applicable BOILING POINT (°C)

MELTING POINT (°C) : 1580 ℃

: Insoluble pH: 7 - 8 SOLUBILITY IN WATER

PERCENT VOLATILE BY VOLUME : Not Applicable EVAPORATION RATE : Not Applicable VAPOUR PRESSURE (mm Hg) : Not Applicable VAPOUR DENSITY (Air = 1) : Not Applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : Not Applicable FLAMMABLE LIMITS : Not Applicable : Not Applicable EXTINGUISHING MEDIA : Not Applicable SPECIAL FIRE FIGHTING PROCEDURES UNUSUAL FIRE AND EXPLOSION HAZARDS: Not Applicable

SECTION VII: REACTIVITY DATA

STABILITY: Stable [XX] Unstable []

INCOMPATIBILITY (CONDITIONS TO AVOID) : HAZARDOUS DECOMPOSITION PRODUCTS None

HAZARDOUS POLYMERIZATION: Will Not Occur [XX] May Occur []

PAGE 3 - BARITE

VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

: Suggest NIOSH/MSHA approved respirators for silica bearing dust

VENTILATION

: Yes if practical; personal air supply may

be useful

PROTECTIVE GLOVES

: None Required : Suggest goggles

EYE PROTECTION OTHER PROTECTIVE EQUIPMENT (Specify) : None Required

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Vacuum or sweep-up if dry.

WASTE DISPOSAL METHOD

Dispose of material in a manner to prevent generating dust.

SECTION IX: PREPARATION

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MATERIAL SAFETY DATA SHEET



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PAGE 1 OF 5

PERCENTAGE:

WHMIS HAZARD INDEX:

DEGREE OF HAZARD: HAZARD RATING:

HEALTH 0 LEAST FIRE 1 1 SLIGHT REACTIVITY 0 2 MODERATE OTHER: **B (GLASSES & GLOVES)** 3 HIGH EXTREME

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: Extreme Floxall

CHEMICAL IDENTIFICATION:

Anionic copolymer of acrylamide, and acrylate

emulsion

MATERIAL USE: Viscosifier, clay inhibitor

WHMIS CLASSIFICATION: Class D-2(B)
WORK PLACE HAZARD: Skin, eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not dangerous goods

PACKAGE GROUP:

CAS NUMBER:

MSDS CODE:

Not applicable
25085-02-3

Not available

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT: MINERAL SPIRITS ALKYL PHENOL ETHOXYLATE

20 -40

3 - 7

CAS NUMBER: 64742-47-8 9016-45-9 LD (50): 6480 Mg/Kg. 3000 Mg/Kg.

LC (50): Not available Not determined

EXTREME PRODUCTS & DRILLING SUPPLIES INC.

PAGE 2 OF 5

Extreme Floxall

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: Off white liquid, mild odour

DENSITY (SPECIFIC GRAVITY): Less than 1.0

BOILING POINT: 290°C

MELTING POINT: Not applicable

SOLUBILITY: Soluble

EVAPORATION RATE: (EE=1):

VAPOUR PRESSURE: (MM HG):

VAPOUR DENSITY: (AIR = 1):

Not available

Not available

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: > 200°C

FLAMMABLE LIMIT: Not available AUTO IGNITION TEMP: No data

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, water spray,

water will cause extreme slipperiness

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained respirators for fire fighting

personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sensitivity to static charge.

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing and reducing agents

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Not available

EXTREME PRODUCTS & DRILLING SUPPLIES INC.

PAGE 3 OF 5

Extreme Floxall

MATERIAL SAFETY DATA SHEET

SECTION 6 HEALTH HAZARDS

ROUTE OF ENTRY:

(X) SKIN

(X) EYE CONTACT

() INHALATION

(X) INGESTION

SKIN CONTACT:

May be minimally irritating to sensitive skin upon

direct contact.

EYE CONTACT:

May cause stinging, burning of eyes and lids,

inflammation and discomfort.

INHALATION:

INGESTION:

Not available.

May cause nausea, vomiting.

SECTION 7

PREVENTATIVE MEASURES

SKIN PROTECTION:

EYE PROTECTION:

VENTILATION:

Impervious gloves, protective clothing as required

Chemical goggles.

None required for normal use. 10 changes per

hour.

RESPIRATORY PROTECTION:

None required for normal use. Otherwise approved organic vapour-type respirator.

LEAK & SPILL PROCEDURE:

Eliminate sources of ignition. Absorb with earth or

sand and dispose with solid waste. Wash site after

collection.

WASTE DISPOSAL:

Dispose in compliance with government

regulations and local requirements.

STORAGE REQUIREMENTS:

Cool, dry area, away from sources of heat,

oxidizing and reducing agents. Keep containers

closed when not in use.

EXTREME PRODUCTS & DRILLING SUPPLIES INC.

PAGE 4 OF 5

MATERIAL SAFETY DATA SHEET

Extreme Floxall

SECTION 8 FIRST AID MEASURES

SKIN: Wash thoroughly with soap and warm water

EYE: Flush with water for at least 15 minutes.

INHALATION: Vapour pressure is negligible. Remove victim from

further exposure.

INGESTION: Do not induce vomiting. If conscious, dilute by

giving two glasses of water. Seek medical

attention.

SECTION 9 PREPARATION DATE

DATE ISSUED: AUGUST 20, 1996

BY: PRODUCT SAFETY COMMITTEE

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DATE REVISED:

PAGE 5 OF 5

Extreme Floxall

MATERIAL SAFETY DATA SHEET

ADDENDUM

SECTION 10

ECOLOGICAL INFORMATION

This product has very low acute toxicity.

ACUTE TOXICITY:

Oral:

Dermal:

Inhalation:

LD50/oral/rat > 5000 mg/kg

The product is not toxic in contact with the skin.

The product is not expected to be toxic by

inhalation.

IRRITATION:

- Skin:

The results obtained using OECD test 404

demonstrated that the product was irritating to the

skin.

Irritating to eyes.

Eyes: SENSITIZATION:

The product is not expected to be sensitizing.

ECOTOXICITY

The product has very low toxicity to aquatic organisms or to the aquatic environment. However, as with all chemical products, do not introduce directly into the environment.

Fish:

Algae:

Daphnie: Bioaccumulation:

Persistence / degradability:

LC50 / Fathead minnows / 96 hours > 1000 mg/l

EC50 / 72h / Phesodactylum tricournumtum >

1000 mg/l

LC50 / 48h / Chastogrammus marinus ≥ 15 mg/l

The product is not expected to bioaccumulate.

Not readily biodegradable.



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Drilling Fluids Engineer

Drilling Mud Products & Additives, Extreme Heat Water Line & Camp Heaters Drill Pipe, DTH Hammers & Bits, Grout Tubing, Portable Buildings

MATERIAL SAFETY **DATA SHEET**

LC(50)

SECTION I: IDENTIFICATION OF PRODUCT

FREEDUCT NAME: Extreme HV Salt Polymer

PRODUCT USE: Drilling Mud Additive

CHEMICAL FAMILY: Polymer

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not a controlled product under WHMIS

WORK PLACE HAZARD: Not applicable

TRANSPORTATION OF DANGEROUS GOODS (TDG)

TDG CLASSIFICATION: Not Dangerous Goods PACKAGE GROUP: Not applicable

PRODUCT IDENTIFICATION NUMBER (PIN): Not applicable

SECTION II: HAZARDOUS INGREDIENTS

LD(50) INGREDIENT PERCENT CAS NUMBER

No Hazardous Ingredients

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: []SKIN []EYE CONTACT [XX]INHALATION []INGESTION

INHALATION: Excessive inhalation of dust impedes respiration due to hydroscopic

properties.

SECTION IV: FIRST AID MEASURES

EYE CONTACT: Flush with plenty of water. If irritation develops, call a physician.

Ordinary measure of personal hygiene should be adequate. SKIN CONTACT:

PAGE 2

Extreme HV Salt Polymer

INHALATION:

Symptomatic treatment.

INGESTION:

Essentially non-toxic.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR : Light beige powder, slight odour

SPECIFIC GRAVITY : 1.5

BOILING POINT (°C) : Not applicable MELTING POINT (°C) : Not applicable

SOLUBILITY IN WATER : Complete pH @ 1.0%: 5.0-6.5

PERCENT VOLATILE BY VOLUME : 15% Maximum (H₂0)

EVAPORATION RATE : Not applicable VAPOUR PRESSURE (mm Hg) : Not applicable VAPOUR DENSITY (Air = 1) : Not applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : Not applicable FLAMMABLE LIMITS : Not applicable

EXTINGUISHING MEDIA : Dry chemical, foam, water fog, spray SPECIAL FIRE FIGHTING PROCEDURES : Self-contained respirators required for

fire fighting personnel

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible dust in the finely divided

and suspended state.

SECTION VII: REACTIVITY DATA

STABILITY: Stable [XX] Unstable []

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents and caustic

solutions

HAZARDOUS DECOMPOSITION PRODUCTS : None

HAZARDOUS POLYMERIZATION: Will Not Occur [XX] May Occur []

PAGE 3

Extreme HV Salt Polymer

VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

: Suggest NIOSH/MESA approved dust

mask.

VENTILATION

; 10 changes per hour suggested

PROTECTIVE GLOVES

: None required

EYE PROTECTION

: None required

OTHER PROTECTIVE EQUIPMENT (Specify)

: None required

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Product becomes very slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Sweep-up spilled material and repackage. Hose spill area very thoroughly. This product becomes very slippery when wet.

WASTE DISPOSAL METHOD

Dispose of material in accordance with local ordinances. Landfill is suggested.

SECTION IX: PREPARATION

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HAZARD RATING:

MATERIAL SAFETY DATA SHEET



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PAGE 1 OF 4

WHMIS HAZARD INDEX:

DEGREE OF HAZARD:

HEALTH	0	0	LEAST
FIRE	0	1	SLIGHT
REACTIVITY	0	2	MODERATE
OTHER:	0	3	HIGH
		4	EXTREME

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME: Extreme Super Trol
CHEMICAL IDENTIFICATION: Semi Synthetic Cellulos

CHEMICAL IDENTIFICATION:

MATERIAL USE:

Semi Synthetic Cellulose

Drilling Fluid Additive

WHMIS CLASSIFICATION:

WORK PLACE HAZARD:

Not Regulated

Not Regulated

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Dangerous Goods

PACKAGE GROUP:

CAS NUMBER:

MSDS CODE:

Not Applicable

Not Applicable

SECTION 2 HAZARDOUS INGREDIENTS

INGREDIENT: No Hazardous Ingredients

PERCENTAGE: N/A CAS NUMBER: N/A

LD (50): LC (50):

PAGE 2 OF 4

Extreme Super Trol

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: Free flowing white powder. No appreciable odour.

DENSITY (SPECIFIC GRAVITY): 1.55
BOILING POINT: N/A
MELTING POINT: N/A

SOLUBILITY:

SOLUBILITY:

EVAPORATION RATE: (EE=1):

VAPOUR PRESSURE: (MM HG):

VAPOUR DENSITY: (AIR = 1):

N/A

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: > 350°C

FLAMMABLE LIMIT: Not determined

AUTO IGNITION TEMP: No data

EXTINGUISHING MEDIA: Water, water fog, foam, dry chemical, CO₂

SPECIAL FIRE FIGHTING PROCEDURES: No special requirements

UNUSUAL FIRE AND EXPLOSION HAZARDS: Becomes very slippery when contacted with water.

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents and caustic solutions.

HAZARDOUS POLYMERIZATION: Will not occur
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon

PAGE 3 OF 4

Extreme Super Trol

MATERIAL SAFETY DATA SHEET

WATERIAL GALLIT DATA GILLI			
SECTION 6	HEALTH HAZARDS		
ROUTE OF ENTRY:			
() SKIN () EYE CONTACT	() INHALATION () INGESTION		
SKIN CONTACT:	Generally not irritating		
EYE CONTACT:	Dust may produce some irritation		
INHALATION:	Non irritating in low concentrations. High		
	concentrations may cause mechanical irritation o		
INCECTION	upper respiratory tract.		
INGESTION:	Generally no harmful effects. May cause gastric intestinal discomfort.		
SECTION 7	PREVENTATIVE MEASURES		
SKIN PROTECTION:	None normally required.		
EYE PROTECTION:	Nuisance dust, use goggles.		
VENTILATION:	No special requirements.		
RESPIRATORY PROTECTION:	Nuisance dust, use dust mask.		
LEAK & SPILL PROCEDURE:	Sweep up or vacuum if dry. If wet, pick up with earth or sand,		
WASTE DISPOSAL:	Dispose of in compliance with local and		
	government regulations.		
STORAGE REQUIREMENTS:	Keep containers closed when not in use. Keep		
	dry, material becomes slippery when wet.		

PAGE 4 OF 4

Extreme Super Trol

MATERIAL SAFETY DATA SHEET

SECTION 8 FIRST AID MEASURES

SKIN:

Wash with soap and water.

EYE:

Flush with water at least 15 minutes.

INHALATION:

Remove from exposure.

INGESTION:

Induce vomiting, give 2 glasses of water. If adverse symptoms develop seek medical

attention.

SECTION 9

PREPARATION DATE

DATE ISSUED:

AUGUST 20, 1996

BY:

PRODUCT SAFETY COMMITTEE

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MATERIAL SAFETY DATA SHEET



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PAGE 1 OF 4

WHMIS HAZARD INDEX:

DEGREE OF HAZARD:

HEALTH	0	0	LEAST
FIRE	0	1	SLIGHT
REACTIVITY	0	2	MODERATE
OTHER:	0	3	HIGH

SECTION 1

PRODUCT IDENTIFICATION

EXTREME

HAZARD RATING:

EXTREME STOP PRODUCT NAME: Acrylamide Copolymer CHEMICAL IDENTIFICATION: Lost Circulation Material MATERIAL USE:

Non Hazardous WHMIS CLASSIFICATION: WORK PLACE HAZARD: Not Applicable

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

Not Dangerous Goods CLASSIFICATION:

N/A PACKAGE GROUP: N/A CAS NUMBER: N/A MSDS CODE:

HAZARDOUS INGREDIENTS **SECTION 2**

None Considered Hazardous INGREDIENT:

PERCENTAGE: N/A N/A CAS NUMBER:

LD (50): LC (50):

PAGE 2 OF 4

EXTREME STOP

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: White Freeflowing Granules, very mild odour.

DENSITY (SPECIFIC GRAVITY): 1.05
BOILING POINT: N/A
MELTING POINT: N/A
SOLUBILITY: >60%
EVAPORATION RATE: (EE=1): N/A

VAPOUR PRESSURE: (MM HG): N/A
VAPOUR DENSITY: (AIR = 1): N/A

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: No Data

FLAMMABLE LIMIT: Not Determined

AUTO IGNITION TEMP: No Data

EXTINGUISHING MEDIA: Dry chemical, foam, water fog, CO₂

SPECIAL FIRE FIGHTING PROCEDURES: None UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable

INCOMPATIBILITY (CONDITIONS TO AVOID): Oxidizing Agents HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon as products of combustion.

PAGE 3 OF 4

EXTREME STOP

MATERIAL SAFETY DATA SHEET

SECTION 6	HEALTH HAZARDS		
ROUTE OF ENTRY: () SKIN () EYE CONTACT	() INHALATION () INGESTION		
SKIN CONTACT: EYE CONTACT: INHALATION: INGESTION:	N/A N/A N/A N/A		
SECTION 7	PREVENTATIVE MEASURES		
SKIN PROTECTION: EYE PROTECTION: VENTILATION: RESPIRATORY PROTECTION: LEAK & SPILL PROCEDURE:	No special requirements. Goggles, may be nuisance dust. No special requirements. If nuisance dust use dust mask. Collect in container. Dispose with solid waste. No hazardous.		
WASTE DISPOSAL:	Dispose of in compliance with local and government regulations.		
STORAGE REQUIREMENTS:	Store in a cool, dry area, away from oxidizing agents. Keep containers closed when not in use.		

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EXTREME STOP

MATERIAL SAFETY DATA SHEET

SKIN: N/A EYE: N/A INHALATION: N/A INGESTION: N/A	

SECTION 9 PREPARATION DATE

DATE ISSUED: AUGUST 20, 1996

BY: PRODUCT SAFETY COMMITTEE

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MATERIAL SAFETY DATA SHEET



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PAGE 1 OF 4

WHMIS HAZARD INDEX:

DEGREE OF HAZARD:

LICALTII	4	^	

HEALTH LEAST FIRE 1 SLIGHT REACTIVITY 2 MODERATE 0 B (GLASSES & GLOVES) OTHER: 3 HIGH

EXTREME

HAZARD RATING:

SECTION 1 PRODUCT IDENTIFICATION

EXTREME KWIK-SEAL (Fine, Medium, Coarse) PRODUCT NAME:

Mixture of Natural and Polymer Fibers CHEMICAL IDENTIFICATION: Drilling Fluid Additive for lost circulation MATERIAL USE:

WHMIS CLASSIFICATION: Not Controlled

WORK PLACE HAZARD: N/A

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not dangerous goods

PACKAGE GROUP: N/A CAS NUMBER: N/A MSDS CODE: N/A

HAZARDOUS INGREDIENTS SECTION 2

No hazardous ingredients **INGREDIENT:**

N/A PERCENTAGE: N/A CAS NUMBER: LD (50): N/A N/A LC (50):

PAGE 2 OF 4

EXTREME KWIK-SEAL

MATERIAL SAFETY DATA SHEET

SECTION 3 PHYSICAL DATA

APPEARANCE AND ODOUR: Golden Tan to Brown; slight odour

DENSITY (SPECIFIC GRAVITY): .15 to 1.5

BOILING POINT: N/A MELTING POINT: N/A

SOLUBILITY: Not soluble

EVAPORATION RATE: (EE=1): N/A
VAPOUR PRESSURE: (MM HG): N/A
VAPOUR DENSITY: (AIR = 1): N/A

SECTION 4 FIRE AND EXPLOSION

FLASHPOINT: N/A

FLAMMABLE LIMIT: N/A

AUTO IGNITION TEMP: Not determined

EXTINGUISHING MEDIA: Waterspray, dry chemical, foam

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained respirators required for fire fighting

personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Can be combustible in a finely divided and

suspended state.

SECTION 5 REACTIVITY DATA

STABILITY (THERMAL, LIGHT, ETC.): Stable INCOMPATIBILITY (CONDITIONS TO AVOID): None

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: None

PAGE 3 OF 4

EXTREME KWIK-SEAL

MATERIAL SAFETY DATA SHEET

SECTION 6

<u>HEALTH HAZARDS</u>

ROUTE OF ENTRY:

() SKIN

(X) EYE CONTACT

(X) INHALATION

(X) INGESTION

SKIN CONTACT:

EYE CONTACT: INHALATION:

INGESTION:

May cause itching or mild irritation.

May cause irritation.

Dust may cause irritation.

No adverse affects from small quantities

SECTION 7

PREVENTATIVE MEASURES

SKIN PROTECTION:

EYE PROTECTION:

VENTILATION:

RESPIRATORY PROTECTION:

LEAK & SPILL PROCEDURE:

WASTE DISPOSAL:

Standard work clothes and gloves.

Wear protective goggles.

10 Changes per hour suggested.

Nuisance dust, suggest NIOSH/MESA approved

dust mask.

Vacuum or sweep-up.

Dispose of in compliance with government

regulation and local requirements.

No special requirements. STORAGE REQUIREMENTS:

PAGE 4 OF 4

EXTREME KWIK-SEAL

MATERIAL SAFETY DATA SHEET

SECTION 8

FIRST AID MEASURES

SKIN:

Wash with soap and water.

EYE:

Treat as nuisance dust, flush with water.

INHALATION:

Treat as nuisance dust, remove subject to fresh

air.

INGESTION:

No adverse affects from small quantities.

SECTION 9

PREPARATION DATE

DATE ISSUED:

AUGUST 20, 1996

BY:

PRODUCT SAFETY COMMITTEE

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