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:

BIG BEAR DIAMOND DRILL ROD GREASE

CHEMICAL FAMILY:

Hydrocarbon

WHMIS CLASSIFICATION: WORK PLACE HAZARD:

Not regulated Not applicable

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not regulated PACKAGE GROUP: Not applicable

PRODUCT IDENTIFICATION NUMBER (PIN): Not applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT

PERCENTAGE

CAS NUMBER

LD50

LC50

Severely hydrotreated naphthenic oils

< 75.00%

64742-52-5

>3 g/kg (Dermal Rabbit)

>5 g/kg (Oral Rat)

N/D

Barium soap

< 35.00%

68201-19-4

Not determined

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:

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

SKIN CONTACT:

Acute exposure is believed to be minimally irritating Acute exposure is believed to be minimally irritating.

EYE CONTACT: INHALATION:

Believed to by minimally irritating if not in excess of permissible

concentrations: see Section VIII.

INGESTION:

Not available

CHRONIC OVEREXPOSURE:

Not determined

IRRITATION INDEX:

SKIN: Believed to be 1.0 - 2.0/8.0 (Rabbit); slightly irritating

EYES: Believed to be <15/110 (Rabbit); no appreciable effect

SYMPTOMS OF EXPOSURE:

None expected other than possible minor irritation. Considered

practically non-toxic.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: None considered necessary.

EYE CONTACT: As with most foreign materials, should eye contact occur, flush eyes with plenty of water.

INHALATION: None considered necessary.

INGESTION: None considered necessary. Do not induce vomiting.

OTHER INSTRUCTIONS: In some cases of ingestion and/or inhalation, medical attention should be obtained.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOR:

Brownish yellow, fibrous grease

DENSITY (SPECIFIC GRAVITY):

>1.0

BOILING POINT: MELTING POINT:

700° F 400° F

WATER SOLUBILITY:

Negligible

% VOLATILE BY VOLUME:

Not determined

8069 River Way, Delta, British Columbia, Canada V4G 1L3 Phone: (604) 940-6050 Fax: (604) 940-6080 Toll Free: 1-800-665-6645

BIG BEAR DIAMOND DRILL ROD GREASE

Page 2 of 3

EVAPORATION RATE:

Not determined

VAPOR PRESSURE (mm Hg):

Not determined (low)

VAPOR DENSITY (Air =1):

>1.0

pH:

Not applicable

VISCOSITY:

NLGI No. 3-4 grease

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

>350° F (COC Method)

FLAMMABLE LIMIT:

Not determined

EXTINGUISHING MEDIA:

According to the National Fire Protection Association Guide, use water spray. Dry chemical, Foam, Carbon Dioxide CO₂. Water or

foam may cause frothing.

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protec tion for persons attempting to stop the leak. See Hazardous Decom

position Products, Section VII.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION VII: REACTIVITY DATA

STABLE [XXX] INSTABLE [] Info not available

INCOMPATIBILITY (CONDITIONS TO AVOID):

Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

This material decomposes at a high temperature to form carbon

monoxide, carbon dioxide, aldehydes and ketones, combustion

products of nitrogen and sulphur.

HAZARDOUS POLYMERIZATION:

Will not occur [XXX] May occur []

SECTION VIII: PREVENTATIVE MEASURES

RESPIRATORY PROTECTION:

None required if exposures are within the permissible concentrations.

See below

VENTILATION:

Natural dilution

PROTECTIVE GLOVES:

Neoprene Chemical type goggle or face shield optional

EYE PROTECTION: OTHER PROTECTIVE EQUIPMENT:

Standard work clothing and work shoes.

PERMISSIBLE CONCENTRATIONS: AIR:

5mg/cubic metre of air for mineral oil mist averaged over an 8 hour

daily exposure (ACGIH 1986 - 87)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Exposed persons should exercise reasonable personal cleanliness; this includes cleansing exposed skin areas several times daily with soap and water and laundering or dry cleaning soiled work clothing at least weekly. Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.



8069 River Way, Delta, British Columbia, Canada V4G 1L3 Phone: (604) 940-6050 · Fax: (604) 940-6080 Toll Free: 1-800-665-6645

BIG BEAR DIAMOND DRILL ROD GREASE

Page 3 of 3

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

Contain spill if possible. Wipe up or absorb on suitable material and shovel up.

WASTE DISPOSAL METHOD:

Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures and processes may influence waste classification. Disposal should be in accordance with applicable federal, provincial and local regulations.

SECTION IX: PREPARATION

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

DATE ISSUED: September 17, 1993

BY: Product Safety Committee

DATE REVISED: April 1, 2000

Review date,

Authorized

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:

DR-133 POLYMER

PRODUCT USE:

Drilling Mud Additive

CHEMICAL FAMILY:

Copolymer of Acrylamide with Sodium Acrylate

WHMIS CLASSIFICATION:

B-3, D-2B

WORK PLACE HAZARD:

Combustible liquid, Toxic material

(TDG TRANSPORTATION OF DANGEROUS GOODS)

TDG CLASSIFICATION:

Not regulated by TDG

LD ₅₀ (oral rat) >5 g/kg 3000 mg/kg >3200 mg/kg	LD ₅₀ (Dermal rabbit) >3 g/kg 4400 mg/kg >2000 mg/kg
3000 mg/kg	4400 mg/kg
3000 mg/kg	
TH HAZARDS	
[] Inhalation	[XXX] INGESTION
swelling or dermatitis.	
	of eyes, and inflammation of
al cramps and vomiting.	
r upon frequent or prolonge	ed exposure.
t	swelling or dermatitis.

SKIN CONTACT:

In case of skin contact, immediately flush contacted area for at least 15 minutes with water.

Remove contaminated clothing immediately and launder before reuse.

If irritation develops consult a doctor.

EYE CONTACT:

In case of contact with eyes, flush with water for at least 15 minutes.

Seek immediate medical attention.

INHALATION:

Remove to fresh air.

If not breathing, give artificial respiration.

If breathing is difficult give oxygen.

Seek medical attention.

INGESTION:

If victim is conscious, give water.

Do not induce vomiting.

Seek immediate medical attention

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

DR-133 POLYMER

Page 2 of 3

SECTION V: PHYSICAL D)ATA	١.
-----------------------	------	----

APPEARANCE AND ODOR : Liquid emulsion SPECIFIC GRAVITY : Not available BOILING POINT (°C) : Not available MELTING POINT (°C) : Not available : Soluble

SOLUBILITY IN WATER

: 7.0 - 9.0 (0.6% in D.W.)pН PERCENT VOLATILE BY VOLUME : Not available

: Not available **EVAPORATION RATE** : Not available VAPOR PRESSURE (mm Hg) VAPOR DENSITY (Air = 1) : Not available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (°C):

: 70°C

FLAMMABLE LIMITS:

: Not available

EXTINGUISHING MEDIA

: Water, dry chemical, foam, carbon dioxide,

Water will cause extreme slipperiness.

SPECIAL FIRE FIGHTING

PROCEDURES

: Self-contained respirators required for fire fighting personnel.

UNUSUAL FIRE AND EXPLOSION

HAZARDS:

: sensitivity to static discharge.

SECTION VII: REACTIVITY DATA

STABILITY:

Stable [XXX]

Unstable []

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizing agents and reducing agents. Not available

HAZARDOUS DECOMPOSITION PRODUCTS:

Will not occur [XXX]

May occur

HAZARDOUS POLYMERIZATION

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

DR-133 POLYMER

Page 3 of 3

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

In absence of proper ventilation, recommend approved organic vapor-type

respirator.

VENTILATION:

10 changes per hour suggested.

PROTECTIVE GLOVES:

Suggest plastic or rubber

EYE PROTECTION:

Goggles

OTHER PROTECTIVE EQUIPMENT

(Specify):

Suggest rubber apron

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep container closed when not in use.

Store in a cool and dry location away from oxidizing and reducing agents.

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED

Eliminate sources of ignition.

Collect into waste container.

Absorb remaining product with earth or sand and dispose of with solid waste.

Wash spill site after material pickup.

Do not breath vapours.

Water will cause extreme slipperiness.

Use NIOSH approved respirator if exposed to vapours.

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 federal, state and local 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.

SUPERSEDES: October 29, 1993 DATE ISSUED: April 1, 2000

BY: Product Safety Committee

Wantan Ja

Authorized

WESTCOAST DRILLING SUPPLIES ITD

DATE REVISED: June, 2000

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:

LINSEED SOAP

CHEMICAL FAMILY:

Lubricating grease

WHMIS CLASSIFICATION: WORK PLACE HAZARD:

Not regulated Not applicable

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION:

Not available

PACKAGE GROUP:

Not available

PRODUCT IDENTIFICATION NUMBER (PIN):

Not applicable (Petroleum Lubricating Grease)

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT

PERCENTAGE

CAS NUMBER

LD50

LC50

Linseed Soap

100%

Mixture

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: (Information not available)

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

SKIN CONTACT:

Prolonged and repeated contact with skin can cause defatting and

drying of the skin resulting in skin irritation and dermatitis.

EYE CONTACT:

Not available.

INHALATION:

Inhalation of oil mist or vapors from hot grease may cause irritation

of the upper respiratory tract. Long term intensive exposure may

cause benign lung fibrosis.

INGESTION:

Not available.
Not determined.

CHRONIC OVEREXPOSURE: IRRITATION INDEX: SKIN:

Not available.
Not available.

SYMPTOMS OF EXPOSURE: EXPOSURE INFORMATION:

Oil mist (particulate): 5 mg/M³ (TLV/TWA)

ACGIH 88/89 10 mg/M3 (TLV/STEL) ACGIH 88/89

SECTION IV: FIRST AID MEASURES

SKIN CONTACT:

Remove contaminated clothing. Wash contaminated skin with mild

soap and water. Wipe excess from skin.

EYE CONTACT:

Flush eyes with water for at least fifteen (15) minutes.

INHALATION:

Remove victim from further exposure. Additional first aid treatment

is not ordinarily required.

INGESTION:

Do not induce vomiting. Obtain medical attention immediately.

OTHER INSTRUCTIONS:

None

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOR:

Semi-solid brown colored grease; slight hydrocarbon odor.

DENSITY (SPECIFIC GRAVITY):

1.0

BOILING POINT: MELTING POINT: 100° C

WATER SOLUBILITY:

Not available Miscible

WESTCOAST DRILLING SUPPLIES LTD.



8069 River Way, Delta, British Columbia, Canada V4G 1L3 Phone: (604) 940-6050 - Fax: (604) 940-6080 Toll Free: 1-800-665-6645

LINSEED SOAP

Page 2 of 3

% VOLATILE BY VOLUME:

EVAPORATION RATE:

VAPOR PRESSURE: (mm Hg) VAPOR DENSITY: (Air = 1)

pH:

VISCOSITY:

Not available

Not available

Not available

Not available 9.5

Not available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

222° C

FLAMMABLE LIMIT: **AUTO IGNITION TEMP:** Not available

343° C

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide CO₂, foam water fog.

SPECIAL FIRE FIGHTING PROCEDURES:

No special procedures - Avoid inhalation of smoke. Caution, spilled

material is slippery. Use water to cool fire-exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None currently known.

SECTION VII: REACTIVITY DATA

STABLE [XXX] INSTABLE []

INCOMPATIBILITY (CONDITIONS TO AVOID): Not available.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide; carbon dioxide and dense smoke are produced on

combustion. Avoid excessive heat, formation of vapors or mists.

HAZARDOUS POLYMERIZATION:

Will not occur [] May occur [] Not Available

SECTION VIII: PREVENTATIVE MEASURES

RESPIRATORY PROTECTION:

Under conditions of high heat use an air purifying respirator (mechanical filter with accompanying organic vapor cartridge).

VENTILATION:

Highly recommended for all indoor situations to control fugitive emissions. Concentrations in air should be maintained below the recommended threshold limit value if unprotected personnel are

involved.

LOCAL:

MAKE-UP AIR:

If oil mist is present or if exposure is exceeded.

Should always be supplied to balance air exhausted

(either generally or locally).

PROTECTIVE GLOVES:

Impervious gloves (viton, nitrile, PVC neoprene) should be worn at

all times when handling this product.

EYE PROTECTION:

Chemical safety goggles and/or full face shield to protect eyes and

OTHER PROTECTIVE EQUIPMENT:

face, if product is handled such that it could be splashed into eyes. Impervious clothing (apron, coveralls) should be worn in confined

workspaces or where the risk of skin exposure is much higher.

PERMISSIBLE CONCENTRATIONS:

Not available.

8069 River Way, Delta, British Columbia, Canada V4G 1L3 Phone: (604) 940-6050 · Fax: (604) 940-6080 Toll Free: 1-800-665-6645

LINSEED SOAP

Page 3 of 3

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Avoid excessive heat, formation of oil mist, breathing of vapors and mist of hot oil and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated.

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

Spilled material is slippery. Isolate hazard area and restrict access. Wear appropriate breathing apparatus (if applicable) and protective clothing. Stop leak only if safe to do so. Contain a land spill by diking. For large spills remove by mechanical means and place in containers. Clean area with appropriate cleaner. Do not allow product to run off from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.

WASTE DISPOSAL METHOD:

Reclaim or dispose of at a licensed waste disposal company.

SECTION IX: PREPARATION

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

DATE ISSUED: May 28, 1991

BY: Product Safety Committee

DATE REVISED: April 1, 2000

Review date:

Authorized

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:

PRODUCT USE:

LUBTUB

CHEMICAL FAMILY:

Sodium polyacrylate Drilling fluid additive

WHMIS CLASSIFICATION:

D₂B

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

INGREDIENTS

PERCENT(%)

LD₅₀ (oral rat)

LD₅₀ (dermal rabbit)

LC₅₀ (inhalation rat)

Sodium salt of polyacrylic

15-40

9003-04-7

CAS#

not determined

not determined

not determined

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY

[XXX] Skin

[XXX] Eye Contact

[XXX] Inhalation

[XXX] Ingestion

THRESHOLD LIMIT VALVE

Not determined

SKIN CONTACT

Prolonged contact may cause skin irritation or dermatitis in some individuals.

EYE CONTACT

May cause watering of eyes and inflammation of conjunctiva

INGESTION

May cause nausea and vomiting.

INHALATION

If misted, may cause sneezing, slight irritation of nose and throat.

SECTION IV: TOXICOLIGICAL INFORMATION

CARCINOGENICITY REPRODUCTIVE TOXICITY TERATOGENICITY

not determined not determined not determined not determined not determined

MUTAGENICITY DEVELOPMENTAL TOXICITY

WESTCOAST DRILLING SUPPLIES LTD.

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

LUBTUB

Page 2 of 3

SECTION V: FIRST AID MEASURES

SKIN CONTACT:

Wash exposed area with soap and water.

If irritation or abnormalities persist, seek medical attention.

EYE CONTACT:

Immediately flush eyes with water for 15 minutes and seek medical attention,.

Contact lenses should not be worn when working with this material.

INGESTION:

If victim is conscious and alert induce vomiting by giving two glasses of water

and sticking finger down throat. Never give anything by mouth to an unconscious person.

Seek medical attention.

INHALATION:

Remove to fresh air, if not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Seek medical attention.

SECTION VI: PHYSICAL DATA

APPEARANCE

Clear to hazy light amber liquid

ODOR

Sweet odour

SPECIFIC GRAVITY

BOILING POINT (°C) MELTING POINT (°C)

not determined not determined

SOLUBILITY IN WATER

Miscible not determined

PERCENT VOLATILE BY VOLUME **EVAPORATION RATE**

not determined

VAPOR PRESURE (mm Hg)

not determined

VAPOR DENSITY (Air = 1)

not determined

pН

6 - 8

SECTION VII: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT

>100 °C (TCC)

FLAMMABLE LIMITS

not determined

EXTINGUISHING MEDIA

CO2, Foam, dry chemical, water spray

SPECIAL FIRE FIGHTING PROCEDURES

UNUSUAL FIRE AND EXPLOSION HAZARDS

Use full protective equipment and self-contained breathing apparatus. Though the product is not flammable, evaporation of sufficient

quantities of material could render the product combustible.

SECTION VIII: REACTIVITY DATA

STABILITY

[XXX] Stable

1 Unstable

INCOMPATIBILITY (Conditions to avoid)

Strong oxidizers

CONDITIONS OF REACTIVITY HAZARDOUS DECOMPOSITION PRODUCTS None known CO_x and smoke on combustion

HAZARDOUS POLYMERIZTION

[XXX] Will not occur

] May occur

WESTCOAST DRILLING SUPPLIES LTD.

8069 River Way, Delta, British Columbia. Canada V4G 1L3

Ph. (604) 940-6050 Fax (604) 940-6080

LUBTUB

Page 3 of 3

SECTION IX: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Use NIOSH approved cartridge respirator when exposure is likely to be

EMERGENCY 1-800-665-6645

excessive.

VENTILATION

General mechanical

PROTECTIVE GLOVES

Chemically resistant

EYE PROTECTION

Safety glasses

OTHER PROTECTIVE EQUIPMENT (Specify)

None known

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

(Use appropriate safety equipment.) Small spills, soak up with absorbent material.

Large spills, dike to contain spill to prevent water pollution.

Recover diked material, return recovered material to plant.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion.

Practice reasonable caution and personal cleanliness.

Avoid skin and eye contact.

Store in a cool well ventilated area.

WASTE DISPOSAL METHOD

Absorb spilled material with absorbent compound, incinerated/dispose to conform with local disposal regulations.

SECTION X: PREPARATION

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

DATE ISSUED: November 10, 1990

SUPERSEDES: April 1997

BY: Product Safety Committee

DATE REVISED: April 1, 2000

DATE REVISED: January 2002

Review date

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:

SPECIAL "E"

CHEMICAL FAMILY:

Biodegradable Lubricating Grease NLG1 2

PRODUCT USE:

Drill Rod Thread Lube

WORK PLACE HAZARD:

Not known.

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION:

Not Dangerous Goods

PACKAGE GROUP:

Not applicable

PRODUCT IDENTIFICATION NUMBER (PIN):

Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Not a controlled product according to WHMIS regulation.

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:

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

EFFECTS OF ACUTE EXPOSURE:

Not known.

EFFECTS OF CHRONIC EXPOSURE:

Not known.

EXPOSURE LIMITS:

None Established Not known.

IRRITANCY OF PRODUCT: SENSITIZATION TO PRODUCT:

REPRODUCTIVE TOXICITY:

Not known.

SENSITIZATION TO FAC

Not known.

CARCINOGENICITY:

Not known.

TERATOGENICITY:

Not known.

MUTAGENICITY:

Not known.

SYNERGISTIC PRODUCTS:

Not known.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Wash with soap and water. If high pressure causes injection under the skin call a doctor.

EYE CONTACT: Wash with water for fifteen (15) minutes. Call a physician if irritation persists.

INHALATION: Product is not normally volatile in form supplied. Remove person to fresh air.

INGESTION: Do not induce vomiting. Call a physician.

SECTION V: PHYSICAL DATA

PHYSICAL STATE:

Semi-solid.

APPEARANCE AND ODOR:

Beige; vegetable odor.

DENSITY (SPECIFIC GRAVITY):

0.9 @ 15.6° C

BOILING POINT:

Not applicable

MELTING POINT:

Not applicable

FREEZING POINT:

130° C 130 (Dropping PT)

WATER SOLUBILITY:

Not applicable Not applicable

% VOLATILE BY VOLUME: EVAPORATION RATE:

Not applicable

WESTCOAST DRILLING SUPPLIES LTD.



8069 River Way, Delta, British Columbia, Canada V4G 1L3 Phone: (604) 940-6050 · Fax: (604) 940-6080 Toll Free: 1-800-665-6645

SPECIAL "E"

Page 2 of 2

VAPOR PRESSURE: (mm Hg)

VAPOR DENSITY: (Air = 1)

pH:

Not applicable

Not applicable Not determined

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

220° C (COC)

FLAMMABLE LIMIT:

Not applicable

EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide and foam.

HAZARDOUS COMBUSTION PRODUCT:

Oxides of carbon, hydrocarbons and smoke.

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION VII: REACTIVITY DATA

STABLE [XXX] INSTABLE []

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of carbon, Hydrocarbons and smoke due to combustion.

REACTIVITY:

Not known

SECTION VIII: PREVENTATIVE MEASURES

RESPIRATORY PROTECTION:

Not normally required.

VENTILATION:

General mechanical ventilation is adequate.

PROTECTIVE GLOVES:

Rubber 1 PVC recommended.

EYE PROTECTION:

CSA approved safety glasses. Normal non-slip industrial footwear.

FOOTWEAR:

CLOTHING:

Coveralls are sufficient.

OTHER PROTECTIVE EQUIPMENT:

Barrier creams are recommended.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep away from incompatible substances. Avoid contact with skin/eyes. Do not take internally.

STORAGE REQUIREMENTS:

Keep in closed containers. Avoid all sources of ignition.

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

Prevent from entering water systems. Soak up with absorbent or contain in a closed vessel.

WASTE DISPOSAL METHOD:

Send to a licensed disposal facility, incinerate or landfill to meet federal, provincial and local regulations.

SECTION IX: PREPARATION

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

DATE ISSUED: June 28, 1992

BY: Product Safety Committee

DATE REVISED: April 1, 2000

Review dates