

Occupational Exposure Limits (1998) : North American exposure limits have not been established for the product. Consult local authorities for acceptable provincial values.
Oil mist (mineral): 5 mg/m³ (TLV/TWA) ACGIH
10 mg/m³ (TLV/STEL) ACGIH
Recommend SHELL guideline of 125 mg/m³ for vapours (8 hour shift).

Mechanical Ventilation: Use explosion-proof ventilation as required to control vapour concentrations. Concentrations in air should be maintained below lower explosive limit at all times or below the recommended threshold limit value if unprotected personnel are involved. Make up air should always be supplied to balance air exhausted (either generally or locally). For personnel entry into confined spaces (i.e. bulk storage tanks) a proper confined space entry procedure must be followed including ventilation and testing of tank atmosphere.

PERSONAL PROTECTIVE EQUIPMENT:

Eye Protection: Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes. Provide an eyewash station in the area.

Skin Protection: Impervious gloves (viton, nitrile) should be worn at all times when handling this material. In confined spaces or where the risk of skin exposure is much higher, impervious clothing should be worn. Safety showers should be available for emergency use.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Use a NIOSH-approved chemical cartridge respirator with organic vapour cartridges or use a NIOSH-approved supplied-air respirator. For high airborne concentrations, use a NIOSH-approved supplied-air respirator, either self-contained or airline breathing apparatus, operated in positive pressure mode.

9. PHYSICAL DATA

Physical State:	Liquid
Appearance:	Lightly Coloured
Odour:	Hydrocarbon Odour
Odour Threshold:	Not available
Freezing/Pour Point:	Not available
Boiling Point:	<380 degrees C
Density:	<876 kg/m ³ @ 15 degrees C
Vapour Density (Air = 1):	Not available
Vapour Pressure:	Not available
Specific Gravity (Water = 1):	0
pH:	Not applicable
Flash Point:	Method Pensky-Martens CC >40 degrees C
Lower Explosion Limit:	1 % (vol.)
Upper Explosion Limit:	6 % (vol.)
Autoignition Temperature:	250 degrees C
Viscosity:	1.3 - 4.1 cSt @ 40 degrees C
Evaporation Rate (n-BuAc = 1):	Not available
Partition Coefficient (K_{ow}):	Not available
Water Solubility:	Insoluble
Other Solvents:	Hydrocarbon Solvents

Formula: C10 to C22 Hydrocarbons

10. STABILITY AND REACTIVITY

Chemically Stable:	Yes
Hazardous Polymerization:	No
Sensitive to Mechanical Impact:	No
Sensitive to Static Discharge:	Yes
Hazardous Decomposition Products:	Thermal decomposition products are highly dependent on combustion conditions.
Incompatible Materials:	Avoid strong oxidizing agents.
Conditions of Reactivity:	Avoid excessive heat, open flames and all ignition sources.

11. TOXICOLOGICAL INFORMATION

Ingredient (or Product if not specified)	Toxicological Data
Fuels, Diesel, No. 2	LD50 Oral Rat >5000 mg/kg LD50 Dermal Rabbit >2000 mg/kg
Routes of Exposure:	Exposure may occur via inhalation, ingestion, skin absorption and skin or eye contact.
Irritancy:	This product is expected to be irritating to skin but is not predicted to be a skin sensitizer.
Chronic Effects:	Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Prolonged exposure to high vapour concentration can cause headache, dizziness, nausea, blurred vision and central nervous system depression.
Pre-existing Conditions:	Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product.
Carcinogenicity and Mutagenicity:	The International Agency for Research on Cancer (IARC) considers that this product is not classifiable as to its carcinogenicity to humans. Middle distillates have caused skin cancers in laboratory animals when applied repeatedly and left in place between applications. This effect is believed to be caused by the continuous irritation of the skin. Good personal hygiene should be maintained to avoid this risk.

12. ECOLOGICAL INFORMATION

Environmental Effects	Do not allow product or runoff 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. May cause physical fouling of aquatic organisms.
Biodegradability	Not readily biodegradable. Potential for bioaccumulation.

13. DISPOSAL CONSIDERATIONS

Waste management priorities (depending on volumes and concentration of waste) are: 1. recycle (reprocess), 2. energy recovery (cement kilns, thermal power generation), 3. incineration, 4. disposal at a licenced waste disposal facility. Do not attempt to combust waste on-site. Incinerate at a licenced waste disposal site with approval of environmental authority.

14. TRANSPORTATION INFORMATION

Canadian Road and Rail Shipping Classification:

UN/NA Number	UN1202
Proper Shipping Name	FUEL OIL
Hazard Class	Class 3 Flammable Liquid
Packing Group	PG III
Shipping Description	FUEL OIL Class 3 UN1202 PG III

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

WHMIS Class:	Class B3 Combustible Liquid Class D2B Other Toxic Effects - Skin Irritant
DSL/NDL Status:	This product, or all components, are listed on the Domestic Substances List, as required under the Canadian Environmental Protection Act.
Other Regulatory Status:	No Canadian federal standards.

16. ADDITIONAL INFORMATION

LABEL STATEMENTS

Hazard Statement :	Combustible Liquid. Irritating to skin.
Handling Statement:	Eliminate all ignition sources. Avoid prolonged exposure to vapours. Wear suitable gloves and eye protection. Bond and ground transfer containers and equipment to avoid static accumulation. Empty containers are hazardous, may contain flammable / explosive dusts, liquid residue or vapours. Keep away from sparks and open flames.
First Aid Statement :	Wash contaminated skin with soap and water. Flush eyes with water. If overcome by vapours remove to fresh air. Do not induce vomiting. Obtain medical attention.

Revisions:	This MSDS has been reissued in the ANSI Z400.1 standard format.
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Material Safety Data / Fiche signalétique**WESTCOAST DRILLING SUPPLIES LTD.**

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SECTION I: IDENTIFICATION OF PRODUCT**PRODUCT NAME:****LUBTUB****CHEMICAL FAMILY:**

Sodium polyacrylate

PRODUCT USE:

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

<u>INGREDIENTS</u>	<u>PERCENT(%)</u>	<u>CAS#</u>	<u>LD₅₀ (oral rat)</u>	<u>LD₅₀ (dermal rabbit)</u>	<u>LC₅₀ (inhalation rat)</u>
Sodium salt of polyacrylic	15-40	9003-04-7	not determined	not determined	not determined

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY [XXX] Skin [XXX] Eye Contact [XXX] Inhalation [XXX] Ingestion

THRESHOLD LIMIT VALUE

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: TOXICOLOGICAL INFORMATION**CARCINOGENICITY**

not determined

REPRODUCTIVE TOXICITY

not determined

TERATOGENICITY

not determined

MUTAGENICITY

not determined

DEVELOPMENTAL TOXICITY

not determined

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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

1.1

BOILING POINT (°C)

not determined

MELTING POINT (°C)

not determined

SOLUBILITY IN WATER

Miscible

PERCENT VOLATILE BY VOLUME

not determined

EVAPORATION RATE

not determined

VAPOR PRESURE (mm Hg)

not determined

VAPOR DENSITY (Air = 1)

not determined

pH

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

Use full protective equipment and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Though the product is not flammable, evaporation of sufficient quantities of material could render the product combustible.

SECTION VIII: REACTIVITY DATA**STABILITY**

[XXX] Stable

[] Unstable

INCOMPATIBILITY (Conditions to avoid)

Strong oxidizers

CONDITIONS OF REACTIVITY

None known

HAZARDOUS DECOMPOSITION PRODUCTSCO_x and smoke on combustion**HAZARDOUS POLYMERIZATION**

[XXX] Will not occur

[] May occur

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SECTION IX: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION**

Use NIOSH approved cartridge respirator when exposure is likely to be 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 SPILLED 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 HEREIN 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

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SECTION I: IDENTIFICATION OF PRODUCT**PRODUCT NAME:** 550X® POLYMER**CHEMICAL FAMILY:** Anionic water soluble polymer**PRODUCT USE:** Drilling mud additive**WHMIS CLASSIFICATION:** Not WHMIS regulated**TRANSPORTATION OF DANGEROUS GOODS (TDGR)****CLASSIFICATION:** Not applicable**PACKAGE GROUP:** Not applicable**UN NUMBER (PIN):** Not applicable**SECTION II: HAZARDOUS INGREDIENTS**

INGREDIENT	PERCENTAGE	CAS NUMBER	LD50	LC50
Copolymer of Acrylamide and Sodium Acrylate		25085-02-3		
Acrylamide	0.1000	79-06-1		

SECTION III: HEALTH HAZARDS**ROUTES OF ENTRY**

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

THRESHOLD LIMIT VALUE:

Not determined

SKIN CONTACT:

No effects of exposure expected due to contact.
Prolonged contact may cause slight skin irritation or dermatitis in some individuals.

EYE CONTACT:

No effects of exposure expected with the exception of mechanical irritation.

INGESTION:

No adverse effects expected.
Product may swell in throat causing choking.

INHALATION:

May cause sneezing, slight irritation of nose and throat.

SECTION IV: FIRST AID MEASURES**SKIN CONTACT:**

Wash with soap and water as a precaution. In case of persistent skin irritation, consult a physician.

EYE CONTACT:

Rinse thoroughly with plenty of water, also under the eyelid. In case of persistent eye irritation, consult a physician.

INGESTION:

The product is not considered toxic based on studies on laboratory animals. Do not induce vomiting, give 2-3 glasses of water.

INHALATION:

Move to fresh air. If not breathing give artificial respiration. Seek medical attention.

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SECTION V: PHYSICAL DATA

APPEARANCE	White granular solid
ODOR	None
SPECIFIC GRAVITY	0.8 at 25° C (77 F)
BOILING POINT (°C)	Not applicable
MELTING POINT (°C)	Not determined
SOLUBILITY IN WATER	Forms a gel
PERCENT VOLATILE BY VOLUME	Not determined
EVAPORATION RATE	Not determined
VAPOR PRESSURE (mm Hg)	Not determined
VAPOR DENSITY (Air=1)	Not determined
pH	4 - 9 @ 5g/L

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	93° C (200 F)
FLAMMABLE LIMITS	Not determined
EXTINGUISHING MEDIA	Dry Chemical, Carbon Dioxide
SPECIAL FIRE FIGHTING PROCEDURES	Aqueous solutions or powders that become wet render surfaces extremely slippery.
UNUSUAL FIRE AND EXPLOSION HAZARDS	No special equipment required.

SECTION VII: REACTIVITY DATA

STABILITY	[XXX] Stable [] Unstable
INCOMPATIBILITY (Conditions to avoid)	Oxidizing agents
CONDITIONS OF REACTIVITY	Not known
HAZARDOUS DECOMPOSITION PRODUCTS	NO _x , CO _x
HAZARDOUS POLYMERIZATION	[XXX] Will not occur [] May occur

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SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION**RESPIRATORY PROTECTION**

Dust masks are recommended where concentration of total dust is more than 10 mg/m³

VENTILATION

General mechanical

PROTECTIVE GLOVES

Chemically resistant

EYE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT (Specify)

Not known

ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED**

Do not flush with water. Clean up promptly by sweeping or vacuum

Keep in suitable and closed containers for disposal.

After cleaning, flush away trace with water.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of the day. Keep in a cool dry place (0 - 30 °C)

WASTE DISPOSAL METHOD

Can be land filled or incinerated, when in compliance with local, provincial and federal regulations.

SECTION IX: TOXICOLOGICAL INFORMATION

CARCINOGENICITY

Not determined

REPRODUCTIVE TOXICITY

Not determined

TERATOGENICITY

Not determined

MUTAGENICITY

Not determined

DEVELOPMENTAL TOXICITY

Not determined

CHRONIC EFFECTS:

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

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550X POLYMER

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SECTION X: PREPARATION

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DATE ISSUED: August, 2001

DATE REVISED: August, 1998

BY: Product Safety Committees

**AMENDMENT
HAZARDOUS INGREDIENTS (550X)**

Material or component	WT% Hazard data
COPOLYACRYLAMIDE/SODIUM ACRYLATE	Not considered hazardous

ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY:	Not determined	
OCTANOL/WATER PARTITION COEFFICIENT	Not determined	
WASTE DISPOSAL METHODS:	Incineration and/or disposal in Chemical Landfill. Disposer must comply with federal, provincial and local disposal or discharge laws.	
RCRA STATUS OF UNUSED MATERIAL IF DISCARDED:	Not a "Hazardous Waste"	
HAZARDOUS WASTE NUMBER:	Not available	
REPORTABLE QUANTITY:	EPA 40 CFR (CERCLA 102):	Not applicable
THRESHOLD PLANNING QUANTITY:	EPA 40 CFR 355 (SERA 301-304):	Not applicable
TOXIC CHEMICAL RELEASE REPORTING:	EPA 40 CFR 372 (SERA 311-313):	Not applicable
EPA HAZARD CLASSIFICATION CODE:	ACUTE - Yes FIRE - No	CHRONIC - No PRESSURE - No REACTIVE - No
HMIS AND NFPA RATINGS:	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	0	0
REACTIVITY	1	1
SPECIAL	Not applicable	Not applicable

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SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: **WDS-120L**
PRODUCT USE: Drilling Mud Additives
CHEMICAL FAMILY: Copolymer of acrylamide with sodium acrylate
WHMIS CLASSIFICATION: B3, D2B
WORK PLACE HAZARD: Combustible liquid, skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS

SHIPPING NAME: not regulated
CLASSIFICATION: not applicable
PACKAGE GROUP: not applicable
PRODUCT IDENTIFICATION NUMBER (Pin): not applicable

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENT %</u>	<u>CAS NUMBER</u>	<u>LD₅₀ (oral rat)</u>	<u>LD₅₀ (dermal rabbit)</u>	<u>LC₅₀ (inhalator rat)</u>
Mineral Spirits	30-60	64742-47-8	>5 g/kg	>3 g/kg	not determined
Alkyl Phenol	3-7	68412-54-4	3000 mg/kg	2830 mg/kg	not determined
Ethoxylate					

SECTION III: TOXICOLOGICAL INFORMATION

CARINOGENICITY not determined
REPRODUCTIVE TOXICITY not determined
TERATOGENICITY not determined
MUTAGENICITY not determined
DEVELOPMENTAL TOXICITY not determined

SECTION IV: HEALTH HAZARDS

ROUTE OF ENTRY: [XXX] Skin [XXX] Eye Contact [XXX] Inhalation [XXX] Ingestion

THRESHOLD LIMIT VALUE : not determined
SKIN CONTACT : Contact may cause irritation, redness, swelling or dermatitis
EYE CONTACT : Will cause painful burning or stinging of eyes and lids, watering of eyes and inflammation of conjunctiva.
INGESTION : May cause nausea and vomiting.
INHALATION : Inhalation not likely.

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EMERGENCY 1-800-665-4345

WDS-120L

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SECTION V: FIRST AID MEASURES**SKIN CONTACT**

: Wash exposed area with soap and water.

If irritation or abnormalities persist, call a physician.

EYE CONTACT

: Immediately flush eyes with water for 15 minutes and call a physician.

INGESTION

: Do not induce vomiting.

If conscious, dilute by giving two glasses of water.

Call a physician immediately.

INHALATION

: Remove to fresh air.

If conscious, dilute by giving two glasses of water.

Call a physician immediately.

SECTION VI: PHYSICAL DATA**APPEARANCE**

Off white liquid

ODOUR

Mineral oil smell

SPECIFIC GRAVITY

1.07

BOILING POINT (°C)

not determined

MELTING POINT (°C)

not determined

SOLUBILITY IN WATER

Soluble

PERCENT VOLATILE BY VOLUME

not determined

EVAPORATION RATE

not determined

VAPOR PRESSURE (mm Hg)

not determined

VAPOR DENSITY (Air = 1)

not determined

pH

6 - 9 (0.6% in water)

SECTION VII: FIRE AND EXPLOSION HAZARD DATA**FLASH POINT**

65°C (TCC)

FLAMMABLE LIMITS

not determined

EXTINGUISHING MEDIA

Water spray, foam, dry chemical, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES

Self-contained respirators required for fire fighting personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Water will cause extreme slipperiness.

Sensitivity to static charge.

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SECTION VIII: REACTIVITY DATA

STABILITY: ☒ Stable ☐ Unstable

INCOMPATIBILITY (Conditions to Avoid) Strong oxidizing and reducing agents.
CONDITIONS OF REACTIVITY Not known
HAZARDOUS DECOMPOSITION PRODUCTS CO₂, smoke on combustion
HAZARDOUS POLYMERIZATION ☒ Will not occur ☐ Will occur

SECTION IX: PREVENTIVE MEASURES**SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION In the absence of proper ventilation a NIOSH approved organic vapour respirator is recommended
VENTILATION General mechanical, 10 changes per hour
PROTECTIVE GLOVES Chemically resistant
EYE PROTECTION Safety glasses
OTHER PROTECTIVE EQUIPMENT (Specify) None known

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED 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, incinerate/dispose to conform with local disposal regulations.

SECTION X: PREPARATION

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

DATE ISSUED: July 2001
SUPERSEDES: January 1995
BY: Product Safety Committee

DATE REVISED: April 1, 2000
DATE REVISED: January 2002

Material Safety Data Sheet / Fiche signalétique

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SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: BIG BEAR DIAMOND DRILL ROD GREASE
CHEMICAL FAMILY: Hydrocarbon
WHMIS CLASSIFICATION: Not regulated
WORK PLACE HAZARD: 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

EYE CONTACT: Acute exposure is believed to be minimally irritating.

INHALATION: Believed to be 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: 700° F

MELTING POINT: 400° F

WATER SOLUBILITY: Negligible

% VOLATILE BY VOLUME: Not determined

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BIG BEAR DIAMOND DRILL ROD GREASE

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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 CO ₂ . 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 protection for persons attempting to stop the leak. See Hazardous Decomposition 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
EYE PROTECTION:	Chemical type goggle or face shield optional
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.

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BIG BEAR DIAMOND DRILL ROD GREASE

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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

DATE REVISED: April 1, 2000

BY: Product Safety Committee

Material Safety Data / Fiche signalétique**WESTCOAST DRILLING SUPPLIES LTD.**

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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

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	CAS NUMBER	LD ₅₀ (oral rat)	LD ₅₀ (Dermal rabbit)
Mineral Spirits	20-40	64742-47-8	>5 g/kg	>3 g/kg
Alkyl phenol ethoxylate	3-7	68412-54-4	3000 mg/kg	4400 mg/kg
Ethoxylated C12-15 Alcohol	1-5	68131-39-5	>3200 mg/kg	>2000 mg/kg

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XXX] Skin [XXX] Eye Contact [] Inhalation [XXX] INGESTION

SKIN CONTACT: Contact can cause irritation, redness, swelling or dermatitis.
EYE CONTACT: Will cause painful burning or stinging of eyes and lids, watering of eyes, and inflammation of conjunctiva.
INHALATION: Not available.
INGESTION: May cause nausea, diarrhea, abdominal cramps and vomiting.
EFFECTS OF CHRONIC EXPOSURE: Skin irritation or dermatitis may occur upon frequent or prolonged exposure.

SECTION IV: FIRST AID MEASURES

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.

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EMERGENCY 1-800-885-6645**DR-133 POLYMER**

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SECTION V: PHYSICAL DATA

APPEARANCE AND ODOR	: Liquid emulsion
SPECIFIC GRAVITY	: Not available
BOILING POINT (°C)	: Not available
MELTING POINT (°C)	: Not available
SOLUBILITY IN WATER	: Soluble
pH	: 7.0 - 9.0 (0.6% in D.W.)
PERCENT VOLATILE BY VOLUME	: Not available
EVAPORATION RATE	: Not available
VAPOR PRESSURE (mm Hg)	: Not available
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.	
HAZARDOUS DECOMPOSITION PRODUCTS :	Not available	
HAZARDOUS POLYMERIZATION	Will not occur [XXX]	May occur []

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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

DATE REVISED: June, 2000

BY: Product Safety Committee

Material Safety Data / Fiche signalétique**WESTCOAST DRILLING SUPPLIES LTD.**

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SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: **W-OB POLYMER**
PRODUCT USE: Drilling Mud Additive
CHEMICAL FAMILY: Polysaccharide Polymer
WHMIS CLASSIFICATION: Class B-3 & D-2(B)
WORK PLACE HAZARD: Combustible and 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
Light mineral distillate	10 - 20%	64742-47-8	Not determined	

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:
[XXX] Skin, [XXX] Eye Contact, [XXX] Inhalation, [XXX] Ingestion

THRESHOLD LIMIT VALUE: 5 mg/cu.M/8 hrs.

EFFECTS OF OVEREXPOSURE: No significant signs or symptoms indicative of any adverse health effects are expected to occur upon short-term exposures.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Remove by wiping; then wash thoroughly with plenty of soap and water.

EYE CONTACT: Flush eyes with clean, low pressure water for at least fifteen (15) minutes, occasionally lifting the eyelids. If pain or redness persists after flushing, obtain medical attention.

INHALATION: Immediately remove personnel from contaminated area to fresh air. Obtain medical attention if there are signs of breathing difficulties.

INGESTION: Do not induce vomiting, since aspiration into the lungs could cause lipid pneumonia. This material is not toxic and no significant signs or symptoms indicative of any adverse health effects are expected.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOR: Opaque, blue liquid; Odorless.
DENSITY (SPECIFIC GRAVITY): 1.03
BOILING POINT: 200° C
MELTING POINT: Not applicable
WATER SOLUBILITY: Soluble
% VOLATILE BY VOLUME: Negligible
EVAPORATION RATE: Nil
VAPOR PRESSURE: (mm Hg) < 1.0
VAPOR DENSITY: (Air = 1) > 10.0
pH: 6 - 8

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W-OB POLYMER

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SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	62° C
FLAMMABLE LIMIT:	Auto-ignition Temp. 227° C
EXTINGUISHING MEDIA:	Dry chemical, CO ₂ , foam and water are effective but may cause frothing.
SPECIAL FIRE FIGHTING PROCEDURES:	Cool tanks and containers exposed to fire with water.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	To protect against hazardous effects of combustion products respiratory protective equipment when in confined spaces or down wind of fire.

SECTION VII: REACTIVITY DATA

STABLE [XXX] INSTABLE []	
INCOMPATIBILITY (CONDITIONS TO AVOID):	Extreme heat and open flame.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide; carbon monoxide.
HAZARDOUS POLYMERIZATION:	Will not occur [XXX] May occur []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION:	
RESPIRATORY PROTECTION:	None required under normal conditions.
VENTILATION:	Adequate ventilation to minimize oil mists below acceptable standards.
PROTECTIVE GLOVES:	None required.
EYE PROTECTION:	Normal safety glasses suggested.
OTHER PROTECTIVE EQUIPMENT:	None required.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact.

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

(Use appropriate safety equipment). Small spills, soak up with absorbent material. Large spills, dike to contain spill to prevent water pollution. Water will cause extreme slipperiness. Recover diked material; return recovered material to plant.

WASTE DISPOSAL METHOD:

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

SECTION IX: PREPARATION

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BY: Product Safety Committee

Material Safety Data Sheet / Fiche signalétique

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SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: PELADOW®
PRODUCT USE: Oil Well Fluid Additive
CHEMICAL FAMILY: Calcium Chloride (>90%)

WORK PLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Class D-2(B)
WORK PLACE HAZARD: Skin and Eye Irritant

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

SHIPPING NAME: Not Regulated Under TDG
TDG CLASSIFICATION: Not applicable
PACKAGE GROUP: Not applicable
PRODUCT IDENTIFICATION NUMBER (PIN): Not applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENTAGE	CAS NUMBER	LD50 (oral rat)
Calcium Chloride	91 - 92%	10043-52-4	900-2100 mg / kg (100%)
Sodium Chloride	1 - 2%	7647-14-5	Not available
Potassium Chloride	2-3%	7447-40-7	Not available
Strontium Chloride	1%	10476-85-4	Not available

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:
[XX] Skin, [XX] Eye Contact, [XX] Inhalation, [XX] Ingestion

EYE CONTACT: Dusts may cause moderate to severe eye irritation, with corneal injury that may be slow to heal. When dissolving, the heat produced may cause more intense effects as well as thermal burns.

SKIN CONTACT: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp and/or abraded, or if material is confined to skin. When dissolving, the heat produced may cause more intense effects as well as thermal burns. DOT classification: Noncorrosive.

SKIN ABSORPTION: A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. The LD₅₀ for skin absorption in rabbits is >5000 mg / kg.

INGESTION: Single dose oral toxicity is low. Swallowing solids may cause gastro-intestinal irritation or ulceration.

INHALATION: Vapours are unlikely due to physical properties. Dust may cause irritation of upper respiratory tract.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Immediately wash skin with lots of soap and water. Remove contaminated clothing and shoes; wash before reuses. Get medical attention if irritation persists after washing.

EYE CONTACT: Get immediate medical attention. Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids occasionally.

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

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

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of patient.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOR:	White to off-white powder; odorless.
DENSITY (SPECIFIC GRAVITY):	2.2 g/cc
BOILING POINT:	198° C
MELTING POINT:	Approximately 230° C
WATER SOLUBILITY:	Soluble pH 7-10
% VOLATILE BY VOLUME:	Not applicable
EVAPORATION RATE:	Not applicable
VAPOR PRESSURE: (mm Hg)	0.009 mm Hg 20° C
VAPOR DENSITY: (Air = 1)	Not applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	Not applicable
FLAMMABLE LIMIT:	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

STABLE [XXX] INSTABLE []

INCOMPATIBILITY (CONDITIONS TO AVOID): (Specific Materials to Avoid) Calcium Chloride will: corrode most metals exposed to air, attack aluminium (and its alloys) and yellow brass; react with sulphuric acid to form hydrogen chloride which is corrosive, irritating, and reactive; give an exothermic reaction with water-reactive materials such as sodium; result in a runaway polymerization reaction with methyl vinyl ether (Bretherick, 1979); and, in solution form react with zinc (galvanizing) to yield hydrogen gas which is explosive (Ibid.). (Bretherick, L. 1979, Handbook of Reactive Chemical Hazards, 2nd Ed.)

HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable**HAZARDOUS POLYMERIZATION:** Will not occur [XX] May occur []

SECTION VIII: PREVENTATIVE MEASURES

RESPIRATORY PROTECTION:	Approved dust respirator 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.

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid eye and prolonged skin contact. Always use cool water (temperature less than 27° C), when dissolving calcium chloride. Heat developed by solutions is very high during dissolving and mixing. When exposed to atmosphere, calcium chloride will pick up water and form a solution. Leather clothing and shoes will be damaged by calcium chloride.

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment. Wear appropriate safety apparel during clean-up. Avoid entry of large amount of product into sewers, natural waters, and drinking water sources. Due to possible harmful effects. Avoid contact with vegetation, animals and fish life. Recover quickly into suitable, dry sealable containers if reusing. Small quantities may be flushed away with plenty of water. Walking surfaces may remain wet longer due to moisture being held by spilled product - avoid by thoroughly water washing surfaces.

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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BY: Product Safety Committee