

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

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.

Material Safety Data / Fiche signalétique

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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

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8069 River Way, Delta, British Columbia,
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Ph. (604) 940-6050 Fax (604) 940-6080

EMERGENCY 1-800-565-6945

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.

INHALATION:

Product may swell in throat causing choking.

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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550X® POLYMER

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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/m ³
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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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 (CBRCLA 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