SPECIAL FIRE HAZARDS	
Vapors are heavier than air & may travel along ground and be ignited by heat, pilot lig	thts and other ignition sources.
V. HEALTH HAZARDS	
INHALATION	PRIMARY ROUTE
Vapors or mist may cause initation of the nose and throat, headache, nausea, vomiting, dizziness, drowsiness, emphoria, loss of econdination, and discrimitation. Chronic exposure may also cause anemia, decreased white blood cell counts, decreased platelets, aplastic anemia, leukemia and irregular heart rhythm. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result. The target organ is the central nervous system.	Yes
EYE CONTACT	
May cause imitation, experiences as mild discomfort and seen as slight excess redness of the eye.	Yes
SKIN IRRITATION	
Prolonged or widespread skin contact may result in the absorption of potentially harmful amounts of material. Can irritate dematitis.	Yes
INGESTION	
Slightly toxic to internal organs if swallowed. Abdominal discomfort, nausea and diarrhea may occur. Aspiration may occur during swallowing or vomiting resulting in ung damage. The target organ is the central nervous system.	N/A
V, HEALTH HAZARDS (Cont'd) Back to Table Of Contents	
SENSITIZATION PROPERTIES	•
Jnknown	*
CHRONIC	
Studies sponsored by API, NIOSH and others have shown benzene (a component of pasoline) should be regarded as a potential occupational carcinogen, based on indings of carcinogenic responses in laboratory animals exposed to this substance. The excess cancer risk for workers exposed to this substance has not been alculated; the probability of developing cancer should be decreased by minimizing exposure to the lowest feasible limits.	· .
ersonnel with pre-existing skin disorders, impaired liver or kidney function, central	

material.				
OTHER REMARKS				
This product contains benzene. Prolonged and repeated exposure to benzene has been associated with anemia and leukemia in humans.				
VL PHYSICAL AND CHEMICAL DATA FOR TO THE OF COMPANY				
The following data are approximate or typical values and should not be used for precise design purposes.				
BOILING RANGE (760 mmHg) 95F	MELTING POINT			
<u>.</u>	N.A.			
SPECIFIC GRAVITY (H <sub>2</sub> 0 = 1)	EVAPORATION RATE (ETHER=1)			
.75	0.04			
VAPOR PRESSURE (mmHG @68)	VAPOR DENSITY (Air = 1)			
5	3-4			
SOLUBILITY IN WATER .	% VOLATILE BY VOLUME			
Insoluble	100			
рН	VISCOSITY (METHOD, TEMP)			
N/A	N/A			
STABILITY	HAZARDOUS POLYMERIZATION			
Stable	Will not Occur			
APPEARANCE AND ODOR				
Light Yellow or Clear Liquid, Gasoline Odor.				
CONDITIONS TO AVOID				
trong oxidizing agents, heat, spark, flame and build-up of static electricity.				
HAZARDOUS DECOMPOSITION PRODUCTS				
arbon monoxide, carbon dioxide and hydrocarbons				

#### VIL PROTECTION AND PRECAUTIONS

Back To Table Of Contents

#### HANDLING

Eye Protection: Remove contact lenses and wear chemical safety glasses, goggles or face shield where contact with liquid or mist may occur.

Skin Protection: Wear impervious gloves, clothing and boots when contact with skin may occur. Wash with soap and water before eating, drinking and smoking. Launder contaminated clothing before reuse.

Inhalation: Use approved respiratory protective equipment for cleaning large spills or entry into large tanks, vessels and other confined spaces, or in any situation where airborne concentrations may exceed occupational exposure limits.

Ventilation: Provide adequate general and local exhaust ventilation: (1) to meet occupational exposure limits, (2) to prevent the formation of explosive atmospheres and (3) to prevent oxygen deficient atmospheres, especially in confined spaces.

#### STORAGE

Store in closed containers in cool, dry, isolated, well-ventilated area away from heat, sources of ignition and incompatibilities. Use non-sparking tools. Ground lines and equipment used during transfer to reduce the possibility of static spark-initiated fire or explosion. Container may pressurize if exposed to heat.

#### **EMPTY CONTAINERS**

Empty containers likely contain toxic, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose containers unless adequate precautions (including repeated flushing of containers) are taken against these hazards.

#### VIII. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

Back To Table Of Contrata

### TRANSPORTATION INCIDENT INFORMATION

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents, DOT P 5800.3.

#### DOT IDENTIFICATION NUMBER

Gasoline UN 1203 DOT Hazard Class 3/Packing Group II

#### OSHA REQUIRED LABEL INFORMATION

The following Hazard warning should be found on a label, bill of lading or invoice accompanying this shipment:

#### DANGERI

#### HIGHLY FLAMMABLE

#### DO NOT INHALE VAPORS OR FUMES

#### MAY BE HARMFUL IF ABSORBED THROUGH SKIN

#### MAY CAUSE DIZZINESS AND DROWSINESS

#### HARMFUL OR FATAL IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE

#### USE ONLY AS FUEL

#### ATTENTION! POSSIBLE CANCER HAZARD

#### CONTAINS BENZENE WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA

IX. ENVIRO	NMENTAL INFORMAT	TON Back To Table Of Courte	ela	
EPA INFORM	MATION FOR HAZARI	OUS CHEMICAL REP	ORTING .	•
EPA HAZAR	D CLASSIFICATION C	ODE		
Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
Hazatu	xxx	xxx		,
XXX				
REPORTABL	E QUANTITY (RQ), EP	A REGULATION 40 CE	R 302 (CERCLA Section	102)
THRESHOLD	PLANNING QUANTIT	Y (TPQ), EPA REGULA	TION 40 CFR 355 (SAR.	A. Sections 301-304)
TOXIC CHE	MICAL RELEASE REPO	ORTING, EPA REGULA	TION 40 CFR 372 (SARA	Section 313)
COMPONENT	rs	CAS NUMBER	CONCENTRATION	
Petroleum Disti	llate Mixture	8002-05-09	89-98%	
Benzene		71-43-2	0.1-5%	
Ethyl Benzene		100-41-4	0-5%	
Toluene	·	108-88-3	0-25%	
1,2,4 Trimethyl	Benzene	95-63-6	0-5%	
Xylene		1330-20-7	0-25%	
Methyl Tertiary	Butyl Ether	1634-04-4	0-15%	

#### PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

Report spills as required to appropriate authorities. U.S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802.

In case of accident or road spill notify Chemtrec (800) 424-9300.

IF MATERIAL IS RELEASED OR SPILLED, absorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

#### WASTE DISPOSAL METHODS

Dispose through a licensed waste disposal company. Follow federal, state and local regulations.

#### "EMPTY" CONTAINER WARNING

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity or other sources of ignition.

The information and recommendations contained herein are a compilation of data provided by various suppliers and, to the best of Agway Petroleum Corporation's (APC) knowledge and belief, accurate and reliable as of the date issued. APC does not warrant or guarantee their accuracy or reliability, and APC shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety, and other necessary information is included on the container.

The Environmental Information included under Section IX hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by APC in order to provide additional help and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with APC's interpretation of the available data.

MSDS Canadian Centre for Occupational Health and Safety \* \* \* \* \* \* \* \* \* \* \* \* \* \* Issue : 94-4 (November, 1994) \* \*\*\* IDENTIFICATION \*\*\* ISDS RECORD NUMBER 265686 : Motor Oil 10W30 RODUCT NAME(\$) : 1988-05 ATE OF MSDS \*\*\* MANUFACTURER INFORMATION \*\*\* : Recochem Inc IANUFACTURER : 850 Montee de Liesse DDRESS Montreal Quebec Canada H4T 1P4 Telephone: 514-341-3550 \*\*\* SUPPLIER/DISTRIBUTOR INFORMATION \*\*\* UPPLIER/DISTRIBUTOR : Recochem Inc : 850 Montee de Liesse DDRESS Montreal Quebec Canada H4T 1P4 Telephone: 514-341-3550 \*\*\* MATERIAL SAFETY DATA \*\*\* BULLETIN DE SECURITE DU MATERIEL MATERIAL SAFETY DATA SHEET SECTION I - NOM ET PRODUIT - NAME AND PRODUCT omplete par - Completed by May 1988 R. Hill om du produit - Trade name Motor Dil 10W30 ynonymes - Synonyms Petroleum Oil C.A.S. Registry #64742-50-3 SECTION II - COMPOSES DANGEREUX ET PROPRIETES PHYSIQUES - HAZARDOUS INGREDIENTS AND PHYSICAL PROPERTIES TLV, LD50 NGREDIENTS DANGEREUX AZARDOUS INGREDIENTS (units) ot applicable oint d'ebullition: Not determined oiling point: oint de Fusion: elting Point: Not determined oids specifique (H20=1): 0.873 at 60 deg F pecific gravity (H20=1):

Volatil par volume: Volatile by volume: Not determined ension de vapeur (mm de Hg): apor pressure (mm of Hg): Not determined olubilite dans l'eau (%): olubility in water (%): Insoluble itesse d'evaporation ( =1): vaporation rate ( =1): <1 ensite de vapeur (air=1): apor density (air=1) Not determined emarques - Remarks Apparence et odeur - Appearance and odor dour threshold not determined Clear amber liquid H not applicable Characteristic Petroleum odour ensity not applicable istibution coefficient il/water not determined SECTION III - FEU ET EXPLOSION - FIRE AND EXPLOSION DATA pint eclair et methode - Flash point and method 370 deg F minimum C.O.C. imites d'inflammabilite - Flammable limits (STP - % vol) Not determined Inferieure - lower Superieure - higher emperature Materiel extincteur - Extinguishing media utoignition CO2 dry chemical, foam, water fog ot determined echniques speciales pour combattre le feu - Special fire fighting procedures Handle as petroleum fire. Avoid smoke inhalation isques d'explosion - Explosion Hazards None. Explosion data sensitivity to mechanical impact: None Sensitivity to static discharge: Low lammability Classification None SECTION IV - REACTIONS - REACTIVITY DATA tabilite - Stability (etat normal - normal conditions) Stable [X] Instable [ ] tats a eviter - Conditions to avoid ncompatibilite - Incompatibility (materiaux a eviter - Materials to avoid) ] H2O [ ] Acide - Acid [ ] Base - Base [ ] Corrosif - Corrosive J Materiel oxydant - Oxydant material [ ] Autres - Others ot Applicable roduits de decomposition dangereux - Dangerous decomposition products Carbon Monoxide olymerisation dangereuse - Dangerous polymerization Peut se produire - May occur .

Ne se produira pas - Will not occur [X]

itats a eviter - Conditions to avoid Not applicable SECTION V - PRECAUTIONS - REQUIREMENTS intreposage - Storing: Manutention - Handling: No special handling procedure required Store in cool dry area Materiel de protection individuelle - Specific personal protective equipment /etements - Clothing: Systeme de respiration - Respiration lot required devices: Not required /entilation - Ventilation requirements Normal ventilation adequate farche a suivre en cas de fuite/renversement - Steps to take if spilled/leaked Clean up with absorbent material. Elimination des dechets - Waste disposal Dispose of in accordance with municipal regulation. SECTION VI - DOMMAGES OCCASIONNES A LA SANTE - HEALTH HAZARD INFORMATION Voies d'exposition - Routes of exposure Inhalation - Inhalation: Not hazardous Contact epidermique - Skin contact: Not hazardous Absorption cutange - Skin absorption: Not hazardous Contact oculaire - Eye contact: May cause irritation Not determined Ingestion - Ingestion: iffets de la surexposition - Effects of over-exposure: Not determined Cas d'urgence et premiers soins - Emergency and first-aid Flush with running water for at least 15 minutes 'eux - Eyes: Wash with soap and water 'eau - Skin: nhalation - Inhalation: Remove to fresh air Ingestion - Ingestion: Call a doctor immediately Proprietes Toxicologiques - Toxicological Properties

#### MOTOR DIL 10W30

- Exposure Limits
- Irritancy of product
- Sensitization to product
- Carcinogenicity
- Reproductive toxicity
- Teratogenicity
- Mutagenicity
- Name of toxicologically synergistic products

- TLV 5 mg/m3
- Not determined
- Not determined
- Not considered a carcinogen (NTP.) (IARC)
- Not determined
- Not determined
- Not determined
- None

Special Shipping Information - None

Source: Breslube Material Safety Data Sheet

RECOCHEM INC

)ATE: 1988-05

#### MATERIAL SAFETY DATA SHEET Identity (Trade Name As Used On Label) CHEMTREK (800) 424-9300 Merck **Emergency Phone Number** Telex\* J892401 Quinton Instrument Co. MSDS Number\* 10043-52-4 3303 Monte Villa Parkway CAS Number 04/09/98 Bothell, WA 98021 Date Prepared Michele Bluemer (425) 402-2000 Prepared By Phone Number (For Information) Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that. SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION COMPONENTS - Chemical Name & Common Names OSHA ACGIH OTHER LIMITS (Hazardous Components 1% or greater; Carcinogens 0.1% or greater) **%**\* PRI. TLV RECOMMENDED Calcium Chloride, 10043-52-4 100 Not Not **Established Established** Non-Hazardous Ingredients TOTAL SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS Boiling 2912°F Specific Gravity 2.15 Point (H2O = 1) Melting Vapor Pressure NA 1431°F (mm Hg and Temperature) Point NA **Evaporation** Rate Vapor Density NA (Air=1) 74.5% Solubility Water No in Water Reactive White, solid crystals Appearance and Odor SECTION 3 - FIRE AND EXPLOSION HAZARD DATA Flammability Limits in Flash Point and Unknown Auto-Ignition Air % by Volume Method Used Temperature LEL UEL Extinguisher Negligible fire hazard when exposed to heat or flame Media Move containers from fire area if you can without risk. Apply cooling water to sides of containers that are Special Fire Fighting Procedures exposed to flame until after fire is out. Unusual Fire and Do not use water directly on material. Avoid breathing corrosive vapors; keep upwind. **Explosion Hazard Data**

\* Optional

Calcium Chloride

#### SECTION 4 - REACTIVITY HAZARD DATA Conditions Anhydrous form reacts exothermically with water. STABILITY To Avoid √Stable Unstable Incompatability Boric Acid + Calcium Oxide, Bromine Trifluoride, Furan-2-Peroxycarboxylic Acid, Metals, Methyl Vinyl Bther. Zinc. (Materials to Avoid) Thermal decomposition products may include toxic and corrosive fumes of chlorine. Hazardous Decomposition Products HAZARDOUS POLYMERIZATION Conditions Not Applicable To Avoid May Occur Will Not Occur SECTION 5 - HEALTH HAZARD DATA PRIMARY ROUTES ✓ Inhalation ✔ Ingestion CARCINOGERN NTP OSHA IARC Monograph ✓ Skin Contact Not Hazardous LISTED IN OF ENTRY ✓ Not Listed Inhalation - May cause irritation, Skin - May cause severe irritation, erythema, dematitis. Bye-HEALTH HAZARDS Acute & Chronic May cause irritation and conjunctivitis. Ingestion Overdose may cause gastrointestinal tract or cardiovascular irregularities. Irritation-Coughing & shortness of breath. Burning sensation & pain in the nasal eavities, Signs and Symptoms of Exposure occassional nose bleeds, & tickling in the throat. Skin-Blistering, exfoliation, alceration, necrosis & scarring. Byes-Redness & pain. Ingestion-May cause abdominal spasms and nausea. Medical Conditions None specified by manufacturer Generally Aggravated by Exposure EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary **Bye Contact** Wash immediately with large amounts of water or normal saline for at least 15 minutes. Remove contaminated clothing. Wash area with soap or mild detergent & large amounts of water. Skin Contact Remove from exposure to fresh air immediately. If breathing has stoped, preform artificial respiration. Keep warm and at Inhalation If vomiting occurs keep head lower than hips. Get medical attention. Ingestion SECTION 6 - CONTROL AND PROTECTIVE MEASURES Respiratory Protection The specific respirator selected must be based on contamination levels found in the work place. (Specify Type) Wear appropriate protective gloves. **Bye Protection** Protective Gloves Wear splash prove and dust resistant Ventikation To Be Used Local Exhaust Mechanical (General) Special Other (Specify) Wear appropriate protective equipment and clothing to prevent skin contact. Other Protective Clothing and Equipment Should provide an eye wash fountain and quick drench shower within the immediate work area. Hygienic Work Practice SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES Steps to be Taken If Material Is Spilled Of Released Waste Disposal Methods Precautions to be Taken in Handling and Storage Other Precautions and/or Special Hazards HMIS NFPA Reactivity Special Rating4 Heald hilida Reactivity Rating



# Poly-Drill Drilling Systems

1824 - 104 Avenue, S.W. Calgary, Alberta, Canada

T2W-OA8

(403) 259-5112 FAX (403) 255-7185

# Section 1—PRODUCT IDENTIFICATION

PRODUCT TRADE NAME(S): Poly Drill 133X/1330

PRODUCT DESCRIPTION: Latex polyelectrolyte

#### SECTION 2—COMPOSITION

A liquid estionic polymer: Evaluation of the ingredient(s) has found no ingredient(s) hazardous as per WHMIS regulations.

#### SECTION 3—PHYSICAL DATA

Boiling Point: Not available

Solubility in Water: Solubility limited by solution viscosity.

Density (g/ml): 1.08 at 25 C

Appearance and Odor: Blue. Odor slight.

Specific Gravity (@ 25 Deg.C.): 1.09

pH: 8.1 (1.0% solution) Physical State: Liquid

#### SECTION 4-FIRE AND EXPLOSION DATA

Flash Point (method used): (PMCC) >100 C

Conditions of flammability: Intense heat, open flame.

Hazardous combustion products: Products of incomplete hydrocarbon combustion.

Upper and Lower flammable limits: Not available

Extinguishing media: Use water spray, foam, dry chemical, or carbon dioxide.

### SECTION 5-REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous Polymerization: Will not occur

Incompatible substances: Avoid strong exidizing and reducing agents.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, and products of incomplete hydrocarbon combustion.

#### SECTION 6—HEALTH HAZARD DATA

TOXICITY RATING: Practically non-harmful.

Routes of Exposure and Effects:

SKIN: Slight irritant: prolonged contact may cause skin irritation or demaritis in some individuals

EYE: No effects of exposure expected with the exception of possible irritation.

INHALATION: If misted, no effects of exposure are expected.

Exposure limits: TLV-TWA: Mineral oil, mist 5 mg/m3

Carcinogenicity: None of the components of this product are listed as carcinogens by IARC and ACGIH

Sensitization of product: Not suspected to be a sensitizer.

Teratongenicity: Not available. Mutagenicity: Not available.

Populari day.

### SECTION 7—EMERGENCY AND FIRST AID PROCEDURES

SKIN: Wash exposed area with soap and water. If irritation or abnormalities persist, call a physician.

EYE: Immediately flush eyes with water for 15 minutes, if irritation or abnormalities persist, call a physician.

INHALATION: Remove to fresh air. If breathing becomes difficult, give oxygen and call a physician.

INGESTION: Don not induce vomiting: Call a physician immediately.

#### SECTION 8—HANDLING AND USE PRECTIONS

Storage requirements: keep container closed when no in use. Store in a cool dry location away from oxidizing and reducing agents.

Waste Disposal: product should be disposed of in accordance with applicable local, Provincial and Federal regulations.

Steps must be taken if product is released or spilled: clean spill areas thoroughly to avoid hazardous slippery conditions.

### SECTION 9-INDUSTRIAL HYGIENE CONTROL MEASURES

Respiratory Protection: None normally required.

Ventilation: If mist and/or vapors are present, use air purifying respirator of self-contained breathing apparatus, but this is

rarely required.

Eye Protection: Safety glasses, if personally preferred Gloves: Generally not necessary. Personal preference.

#### SECTION 10—TOXICOLOGICAL PROPERTIES

Environmental Effects: Not known to be harmful to aquatic life at low concentrations.

Freshwater aquatic toxicity rating: 96 hour LC50 Rainbow Trout = 160 mg/L

96 hour LC50 Salmon = 160 mg/L

#### SECTION 11-DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping Name: Drilling Mud Hazard Class: Not hazardous Hazardous Substances: None

Cautionary Labeling: None required



# Poly-Drill Drilling Systems

1824 - 104 Avenue, S.W. Calgary, Alberta, Canada T2W-OA8 (403) 259-5112 FAX (403) 255-7185

### Section 1—PRODUCT IDENTIFICATION

PRODUCT TRADE NAME(S): Poly Drill CLAY TREAT II

SECTION 2—COMPOSITION

#### SECTION 3—PHYSICAL DATA

Bolling Point: 100 C Solubility in Water: Soluble Density (g/ml): 1.1

Appearance and Odor: Red. Characteristic slight odor.

Specific Gravity (@ 25 Deg.C.): 1.09

pH: 5.0 - 7.0 (1.0% solution) Physical State: Liquid

#### SECTION 4-FIRE AND EXPLOSION DATA

Flash Point: >93.3 C

Conditions of flammability: Will burn after drying

Hazardous combustion products: Oxides of carbon and nitrogen and products of incomplete combustion.

Upper and Lower flammable limits: Not available

Extinguishing media: Use water spray, foam, dry chemical, or carbon dioxide.

#### SECTION 5—REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous Polymerization: Will not occur.

Incompatible substances: Avoid strong oxidizing and reducing agents.

Hazardous decomposition products: Not available.

#### SECTION 6—HEALTH HAZARD DATA

TOXICITY RATING: Practically non-harmful.

Routes of Exposure and Effects:

SKIN: Slight irritant: prolonged contact may cause skin kritation or dermatitis in some individuals

EYE: No effects of exposure expected with the exception of possible irritation.

INHALATION: If misted, no effects of exposure are expected.

Exposure limits: Contains trace acrylamide (SKIN). Exposure limit, TWAEV=0.03 mg/m(ONT, Reg. 654/86).

Contains traces of isopropanol. Exposure limit, TWAEV=400ppm, STEV=500ppm(ONT. Reg.: 654/86).

Carcinogenicity: This product contains traces of acrylamide. Acrylamide is listed by IARC(Group 2B) and ACGIH(Group A2)

as a possible human carcinogen.

Teratongenicity: Not available. Mutagenicity: Not available.

#### SECTION 7—EMERGENCY AND FIRST AID PROCEDURES

SKIN: Wash exposed area with soap and water. If irritation or abnormalities persist, call a physician.

EYE: Immediately flush eyes with water for 15 minutes, if irritation or abnormalities persist, call a physician.

INHALATION: Remove to fresh air. If breathing becomes difficult, give oxygen and call a physician.

INGESTION: Don not induce vomiting: Call a physician immediately.

#### SECTION 8—HANDLING AND USE PRECTIONS

Storage requirements: keep container closed when no in use. Store in a cool dry location away from oxidizing and reducing

agents.

Waste Disposal: product should be disposed of in accordance with applicable local, Provincial and Federal regulations. Steps must be taken if product is released or spilled: clean spill areas thoroughly to avoid hazardous slippery conditions.

### SECTION 9—INDUSTRIAL HYGIENE CONTROL MEASURES

Respiratory Protection: None normally required.

Ventilation: If mist and/or vapors are present, use air purifying respirator of self-contained breathing apparatus, but this is

rarely required.

Eye Protection: Safety glasses, if personally preferred Gloves: Generally not necessary. Personal preference.

#### SECTION 11—DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping Name: Drilling Mud Hazard Class: Not hazardous Hazardous Substances: None

Cautionary Labeling: None required



# Poly-Drill Drilling Systems

1824 - 104 Avenue, S.W. Calgary, Alberta, Canada T2W-OA8 (403) 259-5112 FAX (403) 255-7185



#### Section 1—PRODUCT IDENTIFICATION

PRODUCT TRADE NAME(S): Poly Drill O.B.X.

TDG Classification: Non dangerous goods

WHMIS CLASSIFICATION: Non-regulated

#### SECTION 2—COMPOSITION

A liquid polymer: Evaluation of the ingredient(s) has found no ingredient(s) hazardous as per WHMIS regulations.

#### SECTION 3—PHYSICAL DATA

Boiling Point: Not available

Solubility in Water: disperses in water(forms viscous, slippery solution). pH: 3.8 (1% concentration)

Density (g/ml): Not available

Appearance and Odor: Brown. Odor slight.

Specific Gravity: 0.9 g/cm

Physical State: Liquid

#### SECTION 4-FIRE AND EXPLOSION DATA

Flash Point (method used): (PMCC) greater than 100 C.

Conditions of flammability: Very low risk. Hazardous combustion products: None known. Upper and Lower flammable limits: Not available.

Extinguishing media: Carbon dioxide, dry chemicals, foam, in preference to water spray

#### SECTION 5—REACTIVITY

Chemical stability: Stable under normal conditions.

Hazardous Polymerization: Will not occur.

Incompatible substances: Avoid strong oxidants such as liquid chlorine, concentrated oxygen, sodium or calcium hypochloride.

Hazardous decomposition products: None known

#### SECTION 6—HEALTH HAZARD DATA

TOXICITY RATING: Practically non-harmful.

Routes of Exposure and Effects:

SKIN: Slight irritant: prolonged contact may cause skin irritation or dermatitis in some individuals

EYE: No effects of exposure expected with the exception of possible irritation.

INHALATION: Due to low volatility of mineral distillates a small inhalation hazard exists.

INGESTION: can cause nausea, vomiting, cramps, diarrhea

Chronic exposure limits: None

Sensitization of product: Not suspected to be a sensitizer.

Teratongenicity: Not available. Mutagenicity: Not available.

Carcinogenicity: None of the components of this product are listed as carcinogens by IARC and ACGIH

### SECTION 7-EMERGENCY AND FIRST AID PROCEDURES

SKIN: Wash exposed area with soap and water. If irritation or abnormalities persist, call a physician.

EYE: Immediately flush eyes with water for 15 minutes, if irritation or abnormalities persist, call a physician.

INHALATION: Remove to fresh air. If breathing becomes difficult, give oxygen and call a physician.

INGESTION: Don not induce vomiting: Call a physician immediately.

#### SECTION 8—HANDLING AND USE PRECTIONS

Storage requirements: keep container closed when not in use. Store in a cool dry location away from oxidizing and reducing agents.

Waste Disposal: product should be disposed of in accordance with applicable local, Provincial and Federal regulations.

Steps must be taken if product is released or spilled: clean spill areas thoroughly to avoid hazardous slippery conditions.

#### SECTION 9—INDUSTRIAL HYGIENE CONTROL MEASURES

Respiratory Protection: None normally required.

Ventilation: If mist and/or vapors are present, use air purifying respirator of self-contained breathing apparatus, but this is

rarely required.

Eye Protection: Safety glasses, if personally preferred Gloves: Generally not necessary. Personal preference.

#### SECTION 10—TOXICOLOGICAL PROPERTIES

Environmental Effects: Not known to be harmful to aquatic life at low concentrations.

Freshwater aquatic toxicity rating: 96 hour LC50 Rainbow Trout = 160 mg/L

96 hour LC50 Salmon = 160 mg/L

#### SECTION 11—DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping Name: Drilling Mud Hazard Class: Not hazardous Hazardous Substances: None Cautionary Labeling: None required