

AGWAY Material Safety Data Sheet
AGWAY ENERGY PRODUCTS

Agway Petroleum Corporation, PO Box 4852, Syracuse, NY 13221

DATE ISSUED: 2/1/96

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I. IDENTIFICATION AND EMERGENCY INFORMATION Back To Table Of Contents	
PRODUCT NAME	CAS NUMBER
GASOLINE (ALL GRADES)	86290-81-5
OTHER NAMES	
Regular/Plus/Premium Unleaded (Conventional, Oxygenated and Reformulated)	
FORMULA	
Petroleum Distillate Mixture - 100% - See Section II, Below	
PRODUCT APPEARANCE AND ODOR	
Light Yellow or Clear Liquid, Gasoline Odor	
CLASSIFICATION	
Flammable Liquid & Vapor: UN1203 Packing Group: II	
DOT Hazard Class: 3	
DISTRIBUTOR	
Agway Petroleum Corporation	
PO Box 4852	
Syracuse, NY 13221	

PRODUCT INFORMATION			
315-449-6363			
EMERGENCY PHONE NUMBER			
Chemtrec: 800-424-9300			
IL SUMMARY OF HAZARDS Back To Table Of Contents			
COMPONENTS	CAS NUMBER	CONCENTRATION	
Petroleum Distillate 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%	
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)			
Health 2 0 - Minimal 3 - Serious			
Flammability 3 1 - Slight 4 - Severe			
Reactivity 0 2 - Moderate			
OCCUPATIONAL EXPOSURE LIMITS*			
	OSHA PEL	ACGIH TLV	OSHA STEL
Petroleum Distillate Mixture	300 ppm	300 ppm	500 ppm
Benzene	1 ppm	10 ppm	—
Ethyl Benzene	100 ppm	100 ppm	125 ppm
1,2,4 Trimethyl Benzene	25 ppm	25 ppm	—
Xylene	100 ppm	100 ppm	150 ppm

Methyl Tertiary Butyl Ether	n/a	n/a	---
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* 8-Hour Time Weighted Average Unless Otherwise Specified.

III. EMERGENCY FIRST AID PROCEDURES		Back To Table Of Contents
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INHALATION

Remove affected person from source of exposure. If not breathing, ensure clear airway and institute cardiopulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Get medical attention.

EYE CONTACT

Flush immediately with large amounts of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

SKIN

Remove contaminated clothing immediately. Wash area of contact thoroughly with soap and water. Get medical attention if irritation persists. High pressure skin injections are **SERIOUS MEDICAL EMERGENCIES**. Get immediate medical attention.

INGESTION

DO NOT INDUCE VOMITING BECAUSE OF DANGER OF ASPIRATING LIQUIDS INTO LUNGS. Get immediate medical attention. If spontaneous vomiting occurs, monitor for breathing difficulty.

IV. FIRE AND EXPLOSION		Back To Table Of Contents
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FLASH POINT	AUTOIGNITION TEMPERATURE
-45 F	650 F

FLAMMABLE LIMITS IN AIR (% BY VOL.)

Lower: 1.4

Upper: 7.6

BASIC FIREFIGHTING PROCEDURES

Use dry chemical, foam or carbon dioxide to extinguish fire. Water may be ineffective as an extinguishing medium, but may be used to cool fire-exposed containers, structures and to protect personnel. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop leak. Use water to flush spills away from sources of ignition. **DO NOT FLUSH DOWN PUBLIC SEWERS OR OTHER DRAINAGE SYSTEMS.** Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment.

FIRE AND EXPLOSION HAZARDS

Dangerous when exposed to heat or flame. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Irritating or toxic substances may be emitted upon thermal decomposition.

SPECIAL FIRE HAZARDS

Vapors are heavier than air & may travel along ground and be ignited by heat, pilot lights and other ignition sources.

V. HEALTH HAZARDS

INHALATION

Vapors or mist may cause irritation of the nose and throat, headache, nausea, vomiting, dizziness, drowsiness, euphoria, loss of coordination, and disorientation. 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.

PRIMARY ROUTE

Yes

EYE CONTACT

May cause irritation, 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 dermatitis.

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 lung damage. The target organ is the central nervous system.

N/A

V. HEALTH HAZARDS (Cont'd)

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SENSITIZATION PROPERTIES

Unknown

CHRONIC

Studies sponsored by API, NIOSH and others have shown benzene (a component of gasoline) should be regarded as a potential occupational carcinogen, based on findings of carcinogenic responses in laboratory animals exposed to this substance. The excess cancer risk for workers exposed to this substance has not been calculated; the probability of developing cancer should be decreased by minimizing exposure to the lowest feasible limits.

Personnel with pre-existing skin disorders, impaired liver or kidney function, central nervous system or chronic respiratory diseases should avoid exposure to this

material.

OTHER REMARKS

This product contains benzene. Prolonged and repeated exposure to benzene has been associated with anemia and leukemia in humans.

VI. PHYSICAL AND CHEMICAL DATA

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The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE (760 mmHg) 95F	MELTING POINT
	N.A.
SPECIFIC GRAVITY (H₂O = 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
pH	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	
Strong oxidizing agents, heat, spark, flame and build-up of static electricity.	
HAZARDOUS DECOMPOSITION PRODUCTS	
Carbon monoxide, carbon dioxide and hydrocarbons	

VII. 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 Contents](#)**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:

DANGER!

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. ENVIRONMENTAL INFORMATION

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EPA INFORMATION FOR HAZARDOUS CHEMICAL REPORTING

EPA HAZARD CLASSIFICATION CODE

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
xxx	xxx	xxx		

REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERCLA Section 102)

THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304)

TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)

COMPONENTS	CAS NUMBER	CONCENTRATION
Petroleum Distillate 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
PRODUCT NAME(S) : Motor Oil 10W30
DATE OF MSDS : 1988-05

*** MANUFACTURER INFORMATION ***

MANUFACTURER : Recochem Inc
ADDRESS : 850 Montee de Liesse
Montreal Quebec
Canada H4T 1P4
Telephone: 514-341-3550

*** SUPPLIER/DISTRIBUTOR INFORMATION ***

SUPPLIER/DISTRIBUTOR : Recochem Inc
ADDRESS : 850 Montee de Liesse
Montreal Quebec
Canada H4T 1P4
Telephone: 514-341-3550

*** MATERIAL SAFETY DATA ***

BULLETIN DE SECURITE DU MATERIEL
MATERIAL SAFETY DATA SHEET

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SECTION I - NOM ET PRODUIT - NAME AND PRODUCT

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complete par - Completed by
R. Hill May 1988
nom du produit - Trade name
Motor Oil 10W30
synonymes - Synonyms
Petroleum Oil C.A.S. Registry #64742-50-3

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SECTION II - COMPOSES DANGEREUX ET PROPRIETES PHYSIQUES
- HAZARDOUS INGREDIENTS AND PHYSICAL PROPERTIES

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INGREDIENTS DANGEREUX HAZARDOUS INGREDIENTS	%	TLV, LD50 (units)
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not applicable

point d'ébullition:
boiling point: Not determined

point de Fusion:
melting Point: Not determined

densité spécifique (H2O=1):
specific gravity (H2O=1): 0.873 at 60 deg F

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
istribution coefficient
il/water not determined

SECTION III - FEU ET EXPLOSION - FIRE AND EXPLOSION DATA

oint 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
None.
ncompatibilite - Incompatibility (materiaux a eviter - Materials to avoid)
[] H2O [] Acide - Acid [] Base - Base [] Corrosif - Corrosive
[] Materiel oxydant - Oxydant material [] Autres - Others
ot Applicable
roduits de decomposition dangereux - Dangerous decomposition products
Carbon Monoxide
olymersation dangereuse - Dangerous polymerization
Peut se produire - May occur []
Ne se produira pas - Will not occur [X]

Eviter - Conditions to avoid
Not applicable

SECTION V - PRECAUTIONS - REQUIREMENTS

Entreposage - Storing: Manutention - Handling:
Store in cool dry area No special handling procedure required
Matériel de protection individuelle - Specific personal protective equipment
Vêtements - Clothing: Systeme de respiration - Respiration
Not required devices:
Not required
Ventilation - Ventilation requirements
Normal ventilation adequate
Marche à suivre en cas de fuite/renversement - Steps to take if spilled/leaked
Clean up with absorbent material.
Élimination des déchets - 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 épidermique - Skin contact: Not hazardous
Absorption cutanée - Skin absorption: Not hazardous
Contact oculaire - Eye contact: May cause irritation
Ingestion - Ingestion: Not determined
Effets de la surexposition
- Effects of over-exposure: Not determined

Cas d'urgence et premiers soins - Emergency and first-aid

Yeux - Eyes: Flush with running water for at least 15 minutes
Peau - Skin: Wash with soap and water
Inhalation - Inhalation: Remove to fresh air
Ingestion - Ingestion: Call a doctor immediately

Propriétés Toxicologiques - Toxicological Properties

MOTOR OIL 10W30

Exposure Limits	- TLV 5 mg/m ³
Irritancy of product	- Not determined
Sensitization to product	- Not determined
Carcinogenicity	- Not considered a carcinogen (NTP.) (IARC)
Reproductive toxicity	- Not determined
Teratogenicity	- Not determined
Mutagenicity	- Not determined
Name of toxicologically synergistic products	- None

Special Shipping Information - None
Source: Breslube Material Safety Data Sheet

RECOCHEM INC
R.A. HILL
DATE: 1988-05

MATERIAL SAFETY DATA SHEET

Merck
 Manufacturer
 Quinton Instrument Co.
 Distributor
 3303 Monte Villa Parkway
 Address
 Bothell, WA 98021
 (425) 402-2000
 Phone Number (For Information)

Calcium Chloride
 Identity (Trade Name As Used On Label)
 CHEMTREK (800) 424-9300
 Emergency Phone Number
 J892401
 MSDS Number*
 10043-52-4
 CAS Number*
 04/09/98
 Date Prepared
 Michele Bluemer
 Prepared By*

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 (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Calcium Chloride, 10043-52-4	100	Not Established	Not Established	
Non-Hazardous Ingredients				
TOTAL	100			

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	2912°F	Specific Gravity (H ₂ O = 1)	2.15
Vapor Pressure (mm Hg and Temperature)	NA	Melting Point	1431°F
Vapor Density (Air=1)	NA	Evaporation Rate (= 1)	NA
Solubility in Water	74.5%	Water Reactive	No
Appearance and Odor	White, solid crystals		

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used	Unknown	Auto-Ignition Temperature	Flammability Limits in Air % by Volume	LBL	UBL
Extinguisher Media	Negligible fire hazard when exposed to heat or flame				
Special Fire Fighting Procedures	Move containers from fire area if you can without risk. Apply cooling water to sides of containers that are exposed to flame until after fire is out.				
Unusual Fire and Explosion Hazard Data	Do not use water directly on material. Avoid breathing corrosive vapors; keep upwind.				

* Optional

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY ✓ Stable Unstable	Conditions To Avoid	Anhydrous form reacts exothermically with water.
Incompatibility (Materials to Avoid)	Boric Acid + Calcium Oxide, Bromine Trifluoride, Furan-2-Peroxyacetic Acid, Metals, Methyl Vinyl Ether, Zinc.	
Hazardous Decomposition Products	Thermal decomposition products may include toxic and corrosive fumes of chlorine.	
HAZARDOUS POLYMERIZATION May Occur ✓ Will Not Occur	Conditions To Avoid	Not Applicable

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	✓ Inhalation ✓ Skin Contact	✓ Ingestion Not Hazardous	CARCINOGEN LISTED IN	NTP IARC Monograph	OSHA ✓ Not Listed
HEALTH HAZARDS	Acute & Chronic	Inhalation - May cause irritation, Skin - May cause severe irritation, erythema, dermatitis. Eye - May cause irritation and conjunctivitis. Ingestion-Overdose may cause gastrointestinal tract or cardiovascular irregularities.			
Signs and Symptoms of Exposure	Irritation-Coughing & shortness of breath. Burning sensation & pain in the nasal cavities, occasional nose bleeds, & tickling in the throat. Skin-Blistering, exfoliation, ulceration, necrosis & scarring. Eyes-Redness & pain. Ingestion-May cause abdominal spasms and nausea.				
Medical Conditions Generally Aggravated by Exposure	None specified by manufacturer				
EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary					
Eye Contact	Wash immediately with large amounts of water or normal saline for at least 15 minutes.				
Skin Contact	Remove contaminated clothing. Wash area with soap or mild detergent & large amounts of water.				
Inhalation	Remove from exposure to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep warm and at rest.				
Ingestion	If vomiting occurs keep head lower than hips. Get medical attention.				

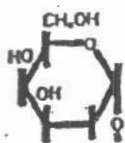
SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)	The specific respirator selected must be based on contamination levels found in the work place.			
Protective Gloves	Wear appropriate protective gloves.		Eye Protection	Wear splash prove and dust resistant
Ventilation To Be Used	Local Exhaust	✓	Mechanical (General)	Special
	Other (Specify)			
Other Protective Clothing and Equipment	Wear appropriate protective equipment and clothing to prevent skin contact.			
Hygienic Work Practice	Should provide an eye wash fountain and quick drench shower within the immediate work area.			

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken If Material Is Spilled Or Released	
Waste Disposal Methods	
Precautions to be Taken in Handling and Storage	
Other Precautions and/or Special Hazards	

NFPA Rating*	Health	Flammability	Reactivity	Special	HMS Rating*	Health	Flammability	Reactivity	Personal Protection
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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 cationic 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 oxidizing 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 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: 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.

Teratogenicity: 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: Do 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 or 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

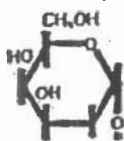
SECTION 11—DEPARTMENT OF TRANSPORTATION INFORMATION

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

Boiling 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 irritation 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.

Teratogenicity: Not available.

Mutagenicity: Not available.

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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: Do 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 or self-contained breathing apparatus, but this is rarely required.

Eye Protection: Safety glasses, if personally preferred

Gloves: Generally not necessary. Personal preference.

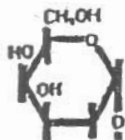
SECTION 11—DEPARTMENT OF TRANSPORTATION INFORMATION

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-0A8
• (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	Specific Gravity: 0.9 g/cm
Solubility in Water: disperses in water(forms viscous, slippery solution).	pH: 3.8 (1% concentration)
Density (g/ml): Not available	Physical State: Liquid
Appearance and Odor: Brown. Odor slight.	

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.

Teratogenicity: Not available.

Mutagenicity: Not available.

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

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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: Do 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 or 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