

Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	: DG [pictograms
T T	B-2, D-2A, D-2B	SW	

Product Name	JET B AVIATION TURBINE FUEL	Code	File # WZ19
Synonym	Jet B, Jet B DI, International Jet B, International Jet B IDI, Jet Fuel JP-4, Jet Fuel F-40; Turbine Fuel, Avietion, Wide Cut Type (CAN/CGSB-3.22).	Validated o	n 3/3/1999.
Manufacturer	PETRO-CANADA	In case of Emergency	613-8:16-6666
Material Uses	Used as aviation turbine fuel. May contain a fuel system irang inhibitor.		Poison Control Centre: Consu- local felephone directory for emergency number(s).

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+	Name	CASE	× MM	TLV-TWA(8 b)	STIL	CEILING
1) Complex mixture of (C6-C14). 2) Proprietary additive.	aliphatic and aromatic hydrocarbons	64741-41-9 Not applicable	>99 <0.2	300 ppm (gasoline) Not actabilished	500 ppm (gasoline) Not established	Not established Not established
Manufacturer Recommendation	Petro-Canada recommends a wor average when handling product wi short term exposure limit when han	hich may contain	benzene; 30	00 ppm for 8 hours time	weighted swerage	urs time weighte and 500 ppm to

Potential Health Effects	Inhelation of vapours or mist may rause imitation of nose and timest, headache, nausea, vomitting, dizzloss, fatique, light-headacheas, reduced coordination and unconclousness; central nervous system depressent; kidney and liver demage from long-term exposure. May be nercode in high concentrations. Skip contact may cause drying, cracking, defauting, or inflammation of stdn. Prolonged or repeated contact with skip may cause dematitis. Eye contact may cause initiation, but no permanent damage. Overexposure due to ingestion is unlikely for noticles since thate and smell limit the amount swallowed. Homiful or fatal if awellowed. For more information, refer to Section 11.

Section A. First	Aid-Maasures
Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush over with running water for at least 15 minutes, keeping syelids open. DO NOT use an eye ofntment. Seek medical attention it infinitely persists.
Skin Contact	Remove conteminated clothing - launder before reuse. Wash gendy and thomoghly the conteminated skin with running water and non-abrasive scap. Get medical attention if redness or initiation occurs.
Inhalation	Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform mouth-to-mouth resuscitation. Administer expensive and available. Allow the victim to rest in a well worth-local seek medical attention.
Ingestion	Gastric deconfamination to prevent absorption is important following a substantial recent lingus ion. It most effective if initiated within 30 minutes. DO NOT induce confiding without supervision of medical personne I, because of danger of pophoting liquid into lungs. Sook immediate medical attention.
Note to Physician	Aspiration into lungs may cause chemical pneumonitis. Monitor for respiratory distress. If cough or difficulty in breathing develops, evaluate for respiratory tract initiation, brenchilds, or pneumonitis. Monitor blood gases to a source adequate vendation. If vital signs become abnormal or symptoms develop obtain a chest X-ray. Provent further absorption by administer charcoal slutty, aqueous or mixed with saline catterfic or sorbiol. The FDA suggested 2-10 mt of diluent/30 is of charcoal. Usual charcoal dose is 30 to 100 g in adults, 15 to 30 g in children and 1 to 2 g/kg in Infants.

Flammability	Flammable liquid (NFPA).	Flammable Limits	Lower: 1,3%; Upper: 7,1% (NFPA).
Flash Points	Clased Cup: -25°C (-13°F). Tag, ASTM D56,	Auto-Ignition Temperature	240°C (464°F)
	•		

JET B AVIATION TU	RBINE FUEL	<u>•</u>	Page Number, 2
Fire Hazards in Presence of Various Substances		Hazards in	Excessive heat. Do not cut, weld, heat, or critic empty container. Containers may explode in heat of fire. Runolf to sewer may create fire or explosion hazard.
Products of Combustion	Carbon oxides (CO, CO2), nitropen oxides (NOx), furnes as products of incomplete combustion.	sulphur exides (S	Ox), sulphur compounds (Hig9), smoke and initialing
Fire Fighting Media and Instructions	NAERG96, GUIDE 128, Flammeble/combustible fice flash point, use of water spray when fighting fire may or foam, LARGE FIRE: Use water spray, fog or foam fire, ISOLATE for 1600 meters (1 mile) in all direct directions. DO NOT extinguish a leaking gas flame to without hazard. If this is Impossible, withdraw from immediately in case of rising sound from venting sate water water spray in order to prevent pressure sewers, streams or other bodies of water. Self-contain from downwind, or to enter enclosed areas or building	y be inefficient. Si p. DO NOT use wittens; also, considual unless leak can be m area and lot find lighty device or any build-up, autoloni ned breathing any	rater jet. If lank, rait car or tenk truck is involved in a ler initial evacuation for 16 to meters (1 mile) in all stopped. Shut off fuel to five if k is possible to do so a burn out under controlled conditions. Withdraw of discolouration of tank due to fire. Cool containing they are application.

Section 6. Acce Material Release or Split	NAERG96, GUIDE 128, Flammable/combustible liquid (non-potat/water-immiscible). Evacuate in a downwind direction for at least 300 meters (1000 feet). ELithtriATE ALL IGNITION SOURCES. Ventilate closed spaces before entering. By forced ventilation, mointain concentration of vapour below the range of explosive mixture. Avoid contact, fully-encapsulating, vapour-protective clothing should be worn for spills and leaks with no line. Stop leak if without risk. Remove the leaking container to an open area and abow it to bleeds off into the atmosphere. Use vapour suppressing foam or water spray to reduce vapours; it may reduce vapour, but it may not prevent ignition in closed spaces; isolate area until vapour has dispersed. Contain spill. Absorb with inert absorbents such as dry clay, or distornaceous earth, or recover using electrically grounded explosion-proof pumps. Avoid inhaling dust of distornaceous earth for it may contain sities in very line particle size, making this a potential respiratory hazard. Place used absorbent in closed metal containers for later disposal or burn
	absorbent in a suitable combustion chamber. DO NOT FLUSH TO SEWERS, STREAMS OR OTHER BODGS OF WATER. Check with applicable jurisdiction for specific disposal requirements of spilled inviterial and empty containers. Notify the appropriate authorities immediately.

Section 7. H	andling and Storage
Handling	Keep away: from sources of ignition. In case of insufficient ventilation, wear suitable respiratory equipment, HANDLE AS EXTREMELY FLAMMABLE LIQUID. Electrically ground/bond during the pumping or transfer to avoid static accumulation. DO NOT USE AS CLEANING FLUID OR SIPHON BY MOUTH. Precautions should be taken to trainings akin contact and inhabition. High standards of personal hygiene are necessary. Wash hands after handling and bok releating. Launder work tighter frequently. Discard sequence faither goods.
Storage	Combustible materials should be stored away from extreme heat and away from strong exideding agents. Store in lightly closed containers in cool, dry, isolated and well-ventilated area. Ground all equipments containing material.

otorage	closed containers in cool, dry, isolated and well-ventilated area. Ground all eculpments containing m iterial.
Section 8: Exposu	re Controls/Personal Protection
Englineering Controls	For normal outdoor application, special vanilation is not necessary. For Indoor or confined spaces provide explosion-proof local exhaust ventilation, or other engineer controls, to keep althorne concentration below the allows ble threshold limit value. Make-up air should always by supplied to balance air removed by exhaust vontilation. Ensure that eyewash station and safety shower are close to work-station.
	The selection of personal protective equipment varies, depending upon conditions of use. Face shield or chemical splash goggles in case of splashing.
Body Wear long steeved clothing to minimize skin contact."	
Respiratory	When exposure is likely to exceed recommended exposure kmit (see section 2), use NIOSH approved respiratory equipment. Respirator should be selected based on the form and concentration of contaminant in air (refer to NIOSH Pocket Guide for Chemical Hazard for respirator selection). In order to determine the concentration of the contaminant, air sampling is RECOMMENDED AND SHOULD BE PERFORMED BY A HEALTH & SAFETY SPECIALIST (AS P PR THE NIOSH Manual of analytical Methods for method of measurement). If air sampling is not preclical and concentration is unknown, use positive pressure self-contained breathing apparatus (SCBA). Contact appropriate HEALTH & SAFETY personnel or supplier for assistance.
Hands	For casual contact, polyvinyl alcohol (PVA) gloves are suitable. For direct contact for more than 2 hours, nitrile or viton gloves are recommended.
Feet	Safety boots or shoea.

JET B AVIATION TURE	PUEL.		Paj e Mambor; 3
Section 9. Phys	ical and Chemical Properties	-	
Physical State and Appearance	Clear liquid.	Viscosity	Not available.
Colour	Clear and colorless.	Pour Point	Freezing Point: <61°C (<60°F) for Jet Billat B Dt; <-58°C (<-72°F) for Jet Fuel F-40,
Odour	Gasoline like.	Softening Point	Not applicable.
Odour Threshold	Not available.	Dropping Point	Not applicable.
Boiling Point	50 to 270℃ (122 to 518°F)	Penetration	Not applicable.
Density	0.75 to 0.80 kg/l. @ 15°C (59°F).	Oil / Water Dist, Coefficient	Not measurable. The product is more soluble in oil.
Vapour Density	3.5 (Air=1)	lonicity (In water)	Insoluble in water.
Vapour Pressure	21 kPa (158 mmHg) @ 37,8°C (100°F).	Dispersion Properties	Not dispersed in cold water, or hot water.
Volatility	Volade,	Solubility	Insoluble in cold water, soluble in non-poter hydrocarbon solvents.

. Section 10. Stabil	lity.and-Reactivity.		
Corrosivity	Non corresive.		
Stability .	The product is stable under normal handling and storage conditions.	Hazardous Polymentation	Will not occur under normal working conditions.
Incompatible Substances / Conditions to Avoid	Can react with strong organic axidizing agents,	Decomposition Products	Releases of COx, NOx, 50x, H2S, smoke and initiating fumes when heated to decomposition.

Routes of Entry	Sidn contact, eve contact, Inhalation and ingresion.
Acute Lethality	Besed on toxicity of pasoline, soute and toxicity (LDSO): 18750 mg/kg (rat),
Chronic or Other Taxic Effects Dermal Route:	Prolonged or repeated contact can defet the skin, cause initiation, and lead to the development of dermatitis. Prolonged skin contact has same effects as inhalation. Injures blood-forming tissue on contact.
Intellation Route:	Exposure to fight hydrocarbons has been exposited in animal studies with effects to the central nervous system peripheral nervous system, fiver, and kidneys. The significance of these animal models to predict similar human response is uncertain. Human health studies indicate that prolonged and/or repeated overexposure to benzen- may cause damage a the blood forming system (particularly bone marrow), and perious blood disorders, such as aplastic anemia and joukemia.
Oral Route:	Aspiration of liquid shops into the lungs may produce potentially fatal chemical pneumonitis (fluid in the lungs), severe lung demage, or respiratory failure.
Eye kritation/Inflammetion:	May irritate the eyes.
Intraunotoxicity:	Benzene-Hematologic and Immunochemical Investigations carried aut in 270 workers with chronic exposure to benzene demonstrated changes of the nucleologram and of the area of lymphocyte nucleoli and disorders of the humoral immuno response revealed by radial immunodiffusion.
Skin Sensitization:	No studies were found.
Respiratory Tract Sensitization:	No studies were found.
Mutagenic:	Benzene is lumorigenic by RTECS critoria.
Reproductive Toxicity;	Based on the available animal data for benzene, Dose; 150 ppm (rat/inhalation/Z4tt/7-14 days of pregnancy) — abnormal development of the musculoskeletel system.
Teratogenicity/Embryotoxicity:	Based on the available animal data, benzene pose a developmental or terratogenicity risk to rats.
Cardinogenicity (ACGIH):	ACGIH A1: confirmed human carcinogen, hasad on loxicity of benzone.
Carcinogenicity (IARC):	IARC Group 1: carcinogenic to Humans, based on toxicity of benzene.
Carcinogenicity (NTP):	NTP Group 1: known to be a cerchogen, based on toxicity of benzenn.
Carcinogenicity (IRIS):	No studies were found.
Carcinogenicity (OSHA):	OSHA Group X: carcinogen defined was no further catagorization, hasced on toxicity of beixene.
Other Considerations	Human health studies indicate that prolonged and/or repeated overexposture to benzene may cause damage to the blood forming system (particularly bone marrow), and serious blood disorders, such as splastic anemia and laukemia. The epidemiologic identure on benzene and laukemia supports the inference that benzene causes acute myelocytic laukemia.

JET B AVIATION TURBI	NE FUEL		Pu je Muniber: 4
Section 12 Ecok	gical Information		
Environmental Fate	Volatilizes and disperses rapidly. Volatilation is expected to be the dominant face process. Biodegrade under both serobic and anaerobic conditions.	Peralatance/ Bioaccumulation Potential	Floats on water, May be dangerous to aquado life in high concentrations.
BODS and COD	Not evallable.	Products of Biodegradation	Not available.
Additional Remarks	If released to soit, fuel oil will strongly adsorb. It 4.8 hrs from a model river) and moist soil surface	may biodegrade in wat is, but adsorption may a	er and soil or volatilize from water (half-life of 4,4 to microtate the rate of these processes.

Section 13. Dispo	sul Considerations.
Waste Disposal	Preferred waste management priorities are: (1) recycle or reprocess; (2) incineration with mangy recovery; (3) disposal at licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements and
x 2000-100000	local dispossi regulations. Consult your local or regional authorities.

Section 14. Trans	sport Information		
TDG Classification	Shipping Name: Fuel, aviation, turbine engine; UN 1883; Class: 3; Packing Group; II; Label required: Flemmable liquid.	Special Provisions for Transport	No additional remark.

Other Regulations	CEPA: This product is acceptable for use under the provisions of WHMIS-CPR. All components of this for listed on DSL. This product may contain trace benzence, a carcinogen, which is listed on NPRI.			
	USEPA: All components of this formulation are fixted on TSCA Inventory. This product may crintain trace ben carcinogen, which is required to be listed under OSHA hazard communication standard, 29 CFR 1910,1200 (U.S.) on New Jersey Environmental Hazardous Substance List. Benzene is listed on EPCRA or NARA Title III. 302/304/311/312 (40 CFR 355/370) for Extremely Hazardous Substances. Benzene is listed on EPCRA or SARA Section 313 (40 CFR 372) for Toxic Chemicals. Benzene is listed on CERCLA Hazardous Substances (RQ Chemicals CFR 302/4). Benzene is listed on RCRA (40 CFR 251.33) for Hazardous Waste. Please note that the chemical ide some or all of the ingredients that may be listed herein is confidential business information and is being withheld as pelloy 29 CFR 1910.1200 and various State Right to Know Laws.			
DSD/DPD (Europe)	5- Healing may cause an explosion, 12- Extremely flammable. 18- In use, may form flammable/explosive vapor-air mixture. 36/37/38- Inflating to eyes, respiratory system and skin. 40- Possible risks of irreversible effects.	HCS (U.S.A.)	HCS CLASS: Flammable point lower than 37.8°C (HCS CLASS: Initiating sul HCS CLASS; Toxic.	100°F).
ADR (Europe) (Pictograms)	*	DOT (U.S.A) (Pictograms)		en e
(A.S.U) SIMH	Health Hazard (1) NFPA (U.S. Fire Hazard (2) Reactivity (5) Personal Protection (A)	Houlth P	Historia Rankag constivity colific hazard	Insignificant Sight Moderate High Estrema

References Available upon request.	
Glossary AOGIH - American Conference of Covernmental Industrial Hygionists ADR - Agreement on Denganus goods by Reed (Europe) ASTM - American Society for Treating and Matchals (BODS - Biological Organ Demand in 5 days CANCCA, B 143.2 Propane lostaliston Code CAS - Chemical Abstract Sorvices CEPA - Consolian Environmental Protection Act CERCLA - Comprehensive Environmental Response, Compensation and Liability Act CEPR - Code of Foderal Regulations CHR - Code of Foderal Regulations CHR - Code of Foderal Regulations CHR - Controlled Products Regulations DOT - Department of Tennaport DSTC - Deraperous Substances Classification and Liability (Entrops) DSTC - Deraperous Substances Classification and Liability (Entrops) DSTC - Deraperous Substances Classification and Liability (Entrops) DSTC - Deraperous Substances Classification and Proparations Directions EFCEU - European Economic Community Figurepoon Union EFCEU - European Economic Community Figurepoon Union EFCER - European Economic Community Figurepoon Union EFCER - European Inventory of Existing Commorcial Chemical Substances EFCER - European Inventory of Existing Commorcial Chemical Substances EFCER - European Inventory of Existing Commorcial Chemical Substances EFCER - European Inventory of Existing Commorcial Chemical Substances EFCER - European Inventory of Existing Commorcial Chemical Substances EFCER - European Inventory of Existing Commorcial Chemical Substances EFCER - European Inventory of Existing Commorcial Chemical Substances	IRUS - Integrated Rick Information Syntam LDSNLCTO - Lowest Published Letter for Syntam LDSNLCTO - Lowest Published Letter for Syntam MAGRISTIC - North American Energy and Response Dulde Brook (1896) MEPA - Material Institute for Occupational Saricy & Health MOSH - National Institute for Occupational Saricy & Health MPRI - National Institute for Occupational Saricy & Health MPRI - National Institute for Occupational Saricy & Health MPRI - National Political Release Inventory MSHR - New Substances Notification Regulations (Canada) MTP - Multicral Touckology Program DSHA - Occupational Saricy & Health Administration PEL - Pennicalida Exposite I init RCRA - Resource Conservation and Recovery Act SARA - Subgetted Americans and Recovery Act SARA - Subgetted American

Jet B AVATION TURBUNE FUEL

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To the best of our knowledge, the information contained heroin is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained hereig. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described hereig, we cannot guarantee that these are the only hazards that exist.

P01/02

Superior Propose Inc.

MATERIAL SAFETY DATA SHEET AHO ROO

SECTION 1 - PRODUCT INFORMATION

Product Name: Propane

Trade Name: LPG (Liquitied Petroleum Gas), LP-Gas

Chemical Formula: CoH.

WHMIS CLASSIFICATION

Class A - Compressed Gas Class B, Division 1 - Flammable Gas Supplier: Superior Propane Inc.

1111 - 49th Avenue N.E.

Calgary, AB T2E EV2

Business: (403) 730-7500

Local Market

Emergency Number:

(Non Medical)

Application and Use: Propane is commonly used as a fuel for heating, cooking, automobiles, forklift trucks, crop drying and welding and cutting operations. Propane is used in industry as a refrigerant, solvent and as a chemical feedstock.

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SECTION 2 - HAZARDOUS INGREDIENTS.

COMPONENTS	CAS NO.	% Volume (v/v)	LD50
Propane	74 -98-6	90% - 99%	Not Applicable
Propylene	115 -07-1	0% - 5%	Not Applicable
Ethane	74 -84-0	. D% - 5%	Not Applicable
Butane and heavier hydro carbons	106 -97-8	0% - 2,5%	Not Applicable

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Occupational Exposure Limit:

Based upon animal test data, the acute toxicity of this product is expected to be inhalation; 4 hour LC:50 = 280,000 ppm (Rat). Note: Composition is typical for HD-5 Propane per The Canadian General Standard Board CGSB :3.14 National Standard of Canada. Exact composition will vary from shipment to shipment.

SECTION 3 - CHEMICAL AND PHYSICAL DATA

Form: Liquid and vapour while stored under pressure,

Boiling Point: -42°C @ 1 atm.

Freezing Point: -188°C

Evaporation Rate: Rapid (Gas at normal ambient

conditions).

Vapour Pressure: 1435 kPa (maximum) @ 37.8°C

Vapour Density: 1.52 (Air = 1)

Coefficient of Water/Oil Distribution: Not available.

pH: Not available.

Solubility in water: Slight, 6.1% by volume @ 17.8°C

Specific Gravity: 0.51 (water = 1)

 Appearance/Odour: Colourless liquid and vapour while stored under pressure, Colourless and odourless gas in natural state at any concentration.
 Commercial propage has an odourant

Commercial propane has an odourant added, ethyl mercaptan, which has an odour similar to boiling cabbage."

Odour Threshold: 4800 ppm

* With proper handling, transportation and storage, adding a chemical odourant such as eth-merc has proven to be a very effective warning device, but all odourants have certain limitations. The effectiveness of the odourant may be diminished by a person's sense of smell, by competing odours and by oxidation which may cause a potentially dangerous situation.

SECTION 4 - FIRE OR EXPLOSION HAZARD

Flash Point: -103.4°C Method: Closed cup.

Flammable Limits: Lower 2.4%, Upper 9.5%

Auto Ignition Temperature: 432°C

Products Evolved Due To Heat Or Combustion: Carbon monoxide can be produced when primary air and secondary air are deficient while combustion is taking place.

Fire and Explosive Hazards: Explosive air-vapour mixtures may form if allowed to leak to atmosphere.

Sensitivity To Impact: No.

Sensitivity To Static Discharge: Yes.

Fire Extinguishing Precautions: Use water spray to cool exposed cylinders or tanks. Do not extinguish fire unless the source of the escaping gas that is fueling the fire can be turned off. Fire can be extinguished with carbon dioxide and/or dry chemical (BC). Container metal shells require cooling with water to prevent flame impingement and the weakening of metal. If sufficient water is not available to protect the container shell from weakening, the area will be required to be evacuated. If gas has not ignited, liquid or vapour may be dispersed by water spray or flooding.

Special Fire Fighting Equipment: Protective clothing, hose

SECTION 5 - REACTIVITY DATA

Stability: Stable.

Conditions To Avoid: Keep separate from exidizing agents. Gas explodes spontaneously when mixed with chloride dioxide.

Incompatibility: Remove sources of ignition and observe distance requirements for storage tanks from combustible material, drains and openings to building.

Hazardous Decomposition Products: Delicient primary and secondary air can produce carbon monoxide. Hazardous Polymerization: Will not occur.

monitors, fog nozzles, self-contained breathing apparatus.

ATT: DOOG-

SECTION 6 - TOXICOLOGICAL PROPERTIES OF MATERIALS

ROUTES OF ENTRY:

Inhalation: Simple asphyxiant. No effect at concentrations of 10,000 ppm (peak exposures). Higher concentrations may cause central nervous system disorder and/or damage. Lack of oxygen may cause dizziness, loss of coordination, weakness, fatigue, euphoria, mental confusion, blurred vision, convulsions, breathing failure, coma and death. Breathing high vapour concentrations (saturated vapours) for a few minutes may be fatal. Saturated vapours may be encountered in confined spaces and/or under conditions of poor ventilation. Avoid breathing vapours or mist.

Skin and Eye Contact: Exposure to vapourizing liquid may cause frostbite (cold burns) and permanent eye damage.

Ingestion: Not considered to be a hazard.

Acute Exposure: The acute toxicity of this product is expected to be inhalation: 4 hour LC50=280,000ppm (Rat). Chronic Exposure: There are no reported effects from long

term low level exposure.

Sensitization to Product: Skin-unknown,

Respiratory-unknown.

Occupational Exposure Limits: American Conference of Governmental Industrial Hygienists (ACCilH) lists as a simple asphyxiant. ACGIH TLV: 1000 ppm.

Carcinogenicity, Reproductive Toxicity, Teratogenicity, Mutagenicity: No effects reported.

SECTION 7 - PREVENTIVE MEASURES

Eyes: Safety glasses, are recommended when transferring product,

Skin: Insulated gloves required if contact with liquid or liquid cooled equipment is expected. Wear gloves and long sleeves when transferring product.

Inhalation: Where concentration in air would reduce the oxygen level below 18% air or exceed occupational exposure limits in section 6, self-contained breathing apparatus is required. Ventiliation: Explosion proof ventiliation equipment required in confined spaces.

SECTION 8 - EMERGENCY AND FIRST AID PROCEDURES

FIRST AID:

Eyes: Should eye contact with liquid occur, flush eyes with lukewarm water for 15 minutes. Obtain immediate medical care.

Skin: In case of "Cold Burn" from contact with liquid, immediately place affected area in lukewarm water and keep at this temperature until circulation returns. If fingers or hands are frostbitten, have the victim hold his hand next to his body such as under the armpit, Obtain immediate medical care.

Ingestion: None considered necessary.

Inhalation: Remove person to fresh air. If breathing is difficult or has stopped, administer artificial respiration. Obtain immediate medical care.

SPILL OR LEAK:

Eliminate leak of possible. Eliminate source of ignition. Ensure cylinder is upright.

Disperse vapours with hose streams using fog nozzles. Monitor low areas as propane is heavier than air and can settle into low areas. Remain upwind of leak. Keep people away. Prevent vapour and/or liquid from untering into sewers, basements or confined areas.

SECTION 9 - TRANSPORTATION, HANDLING AND STORAGE

- Transport and store cylinders and tanks secured in an upright position in a ventilated space away from ignition sources (so the pressure relief valve is in contact with the vapour space of the cylinder or tank).
- Cylinders that are not in use must have the valves in the closed position and be equipped with a protective cap or quard.
- Do not store with oxidizing agents, oxygen, or chlorine cylinders.
- Empty cylinders and tanks may contain product residue. Do not pressurize, cut, heat or weld empty containers.
- Transport, handle and store according to applicable federal and provincial codes and regulations.

Transportation of Dangerous Goods (TUG)

- TDG Classification: Flammable Gas 2.1
- -TDG Shipping Name; Liquified Petroleurn Gas (Propane)
- -TDG Special Provisions: 56, 90, 102
- PIN Number: UN1075

SECTION 10 - PREPARATION

Superior Propane Inc., Regulations & Safety Department. (403) 730-7500 Date prepared: November 1901. Supersedes: September 1999.

The information contained herein is believed to be accurate, it is provided independently of any sale of the product. It is not intended to constitute serformance information concerning the product. No express warranty, implied warranty of merchanizability or fitness for a particular purpose is made with respect to the product information contained herein.



Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
	B-3, D-2B	38	

Product Name	DIESEL FUEL	Code	W104 SAP: 120, 121, 122, 287
Synonym	Seasonal Diesel LS, Diesel AA, Domestic Marine Diesel, International marine		on 3/2/2001.
	Diesel, Seasonal Diesel Locomotive, Domestic Merine diesel LS, diesel -20°C (LS). LSD. Low Sulphur Diesel, dyed diesel, marked diesel, coloured diesel.		
Manufacturer	PETRO-CANADA. P.O. Box 2844 Calgary, Alberta TZP 3E3	In case of Emergency	613-096-6666 Polson Control Centre: Consult
Material Uses	Diesel fuels are distillate fuels suitable for use in high and medium speed internal combustion engines of the compression (golflon type.	12	local telephone directory for emergency number(s).

			E	Expanse Unite (AECH)		
Name	CAS#	% (VM)	TLY-TWA(E b)	\$TEL	CENTING	
1) Diesel oil, 2) Propriorary additives, 3) Aromatic content is 50% maximum (benzana: nll). 4) "Notice of Intended Change (2000): 100 mg/m³, skin, A3.	68334-30-5 >99.9 Not avaitable <0.1		Not established Not established	Not established Not established	Not established Not established	
Manufacturer Not applicable Recommendation						

Section 3. Haza	rds (dentification,
Potential Health Effects	Eye contact may cause mild eye irritation. Skin contact can cause moderate to severe kritation and produce drying, cracking, or defetting demattis. Inhalation of vapours can cause CNS depression with symptoms of neusea, headaches vomiting, dizzinesa, latigue, light-headedness, reduced coordination, unconclousness and possibly death. Inhalation can also cause irritation of nose and threat. Aspiration of liquid drops into the lungs may produce potentially fatal chemical pneumonitis (fluid in the lungs), severe lung damage, or respiratory failure. For more information, rafer to Section 11.

Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.
Skin Contact	Remove contaminated ciolising - leuncler before reuse. Wash gently and thoroughly the contaminated skin with running water and non-obrasive soop. Seek medical attention.
Inhalation	Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform antificial respiration. Allow the victim to rest in a well ventilated area. Seek medical attention.
Ingestion	DO NOT induce voralding because of danger of aspirating liquid into lungs. Seek medical attention.
Note to Physician	Not available

Flammability	Class II - combustible liquid (NFPA).	Flammable Limits	LOWER: 0.7%, UPPER: 6%
Flash Points	Diesel Fuel: Closed Cup: >40°C (>104°F) Marine Diesel Fuel: Closed Cup: >60°C (>140°F)	Auto-Ignition Temperature	225°C (437°F)
Fire Hazards in Presence of Various Substances	heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and	Explosion Hazards in Presence of Various Substances	Containers may explode in heat of fire. Do not cut, weld, heat, offil or pressurize empty container. Vapour explosion hazard indoors, outdoors or in sewers. Itunoff to sewer may create fire or explosion hazard.
Products of .	Carbon oxides (CO. CO2), nitrogen oxides (NOx), smoke and imitating vapours as products of incomple	sulphur axides (SOx).	sulphur compounds (H2S) water vapour (H2O).

DIESEL FUEL	Page Miniber I
Fice Fighting	NAERG98, GUIDE 128, Flammable liguids (Non-potat/Water-immiscible).
Media and Instructions	CAUTION: This product has a moderate flash point above 40°C. Use of water spray when fighting fire may be inefficient.
msquebons	If tank, rail car or tank truck is knyolved in a tire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial gyacusation for 800 meters (1/2 mile) in all directions.
	SMALL FIRES: Dry chemical, CO2, water spray or regular foam.
	LARGE FIRES: Water spray, log or regular foem. Do not use straight streams. Move containers from fire area if you can do it without risk.
	Fires involving Tanks or Car/Trailor Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
	Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting devices or any discolouration of tank. ALWAYS stay away from the ends of tenks. For massive fire, use unmanated
	hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6. Acck	dental Release Measures
Material Release or Spitt	NAERG96, GUIDE 126, Flammable Liquids (Non-potent Water-Immiscible). ELIMINATE ALL IGNITION SOURCES. Avoid contact. Stop leak if without risk, Contain spill, Absorb with inert absorbents dry clay, or diatomaccous south. Avoid inhaling dust of diatomaccous south for it may contain sailed in a right particle disco, making this a potential respiratory hazard. Place used absorbent in closed metal containers for later disposal or burn absorbent in a suitable combustion chamber, DO NOT FLUSH TO SEWERS, STREAMS OR OTHER FIODIES OF WATER. Check with applicable jurisdiction for specific disposal requirements of spilled metantal and empty containers. Notify the appropriate authorities immediately.

Section 7. H	andling and Storage
Handling	Keep away from heet, Keep away from sources of ignition. Empty containers pose a fire risk. DO NOT reuse empty containers without commercial cleaning or reconditioning. Ground/bond line and equipment during pumping or transfer to avoid accumulation of static charge. DO NOT ingest. Do not breathe gas/vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, sook medical advice immediately. Avoid contact with skin and eyes. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.
Storage	Store in tightly closed containers in cool, dry, isolated, well-ventilisted area, and away from incompatibles. Ground all equipment containing material.

Section 8, Exposu	re Controlsifiersonal Protection
Engineering Controls	For normal application, special vanishion is not necessary. If user's operations generate vapours or mist, use vanishion to keep exposure to airborne contaminants below the exposure timit. Make-up air should always be supplied to balance air removed by exhaust vanishion. Ensure that eyewash station and safety shower are close to work-station.
Personal Protection - Eyes	The selection of personal protective equipment varies, depending upon conditions of use. Eye protection (i.e., safety glacses, safety goggles and/or face shield) should be determined based on conditions of use. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.
Body Wear appropriate clothing to prevent skin contact. As a minimum long stoeves and trousers should be trom.	
Respiratory	Where concentrations in sir may exceed the occupational exposure limits given in Section 2 (and those applicable to your area) and where engineering, work practices or other means of exposure reduction are not adequate; NIOSH approved respirators may be necessary to prevent overexposure by intratation.
Hands	Wear appropriate chemically protective gloves. When handling hall product ensure gloves are heat resistant and insulated.
Feet	Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Physical State and Appearance	Bright olly liquid.	Viscosity	1,3-4.1 cSt @ 40°C (104°F)
Colour	Clear to yellow / brown. Low sulphur diesel fuels (<0.05 wt % sulphur) are colourloss to light yellow (and may be dyed rad for taxation purposes). Rogular sulphur diesel fuels (0.05-0.50 % sulphur) may be colourless to yellow / brown and are usually dyed rad for taxation purposes.	Pour Point	Variable, 0°C to -50°C (32°F to -58°F)
Odour	Petroleum oil like.	Softening Point	Not applicable.
Odour Threshold	Not available	Dropping Point	Not applicable.
Bolling Point	150-371°C (302-700°F)	Panetration	Not applicable.
Density .	0.85 kg/L @ 15°C (Water = 1).	Oil / Water Dist. Coefficient	Not available
Vapour Density	4.5 (Air = 1)	lonicity (in water)	Not applicable.

DIESEL FVEL			Paga Numbar 3
Vapour Pressure	1.0 kPa @ 20°C (7.5 mmHg @ 68°F).	Dispersion Properties	Not available
Volatility	<0.1 (Butyl acetate = 1), leas than gasoline.	Solubility	Insoluble in cold water, soluble in non-polar hydrocarbon solvents.

Corrosivity	Not available		
Stability	The product is stable under normal transfing and storage conditions.	Hazardous Polymerization	Will not occur under normal working conditions,
Incompatible Substances / Conditions to Avoid	Reactive with exidizing agents and acids.	Decomposition Products	May release COx, NOx, SOx, H/S, H2O, smoke and Initialing vapours when heated to decomposition.

Section 11. Toxicological la			
Routes of Entry	Sidn contact, eye contact, inhalation, and ingestion.		
Acute Lethality	Acute oral toxicity (LCSO): 7500 mg/kg (rat).		
Chronic or Other Toxic Effects Dermat Route;	Skin contact may cause moderate to severe initiation. Repeated exposure would produce drying and cracking defating demetitis.		
Inhelation Roule:	Initialation of vapours can cause CNS depression with symptoms of hausea, headaches, vomiting, dizzines fatigue, light-headedness, reduced coordination, tinconclousness and possibly death. Inhatation can also caus irritation of nose and throat.		
Oral Route:	Aspiration of liquid drops into the lungs may produce potentially fatal chemical pneumonitis (fluid in the lungs) severe lung damage, or respiratory failure,		
Eye Initation/Inflammation:	Eya contact may cause mild initiation, but no permanent damage.		
In-muholoxicity;	Not available		
Skin Sensitization:	This product is not expected to be a rikin sensitizer, based on the available data and the known hazards of the components. This product is not expected to be a respiratory wast sensitizer, based on the available data and the known hazards of the components.		
Respiratory Tract Senshization:			
Mutagenic;	This product is not expected to be a mutagen, based on the available data and the known hazards of the components.		
Reproductive Toxicity:	This product is not expected to be a improductive hazard, based on the available data and the known hazards of the components,		
Teratogenicity/Embryotoxicity.	This product is not expected to be a teratogen or an embryotoxin, based on the available rists and the known hazards of the components.		
Carcinogenicity (ACGIH):	ACGIH Notice of Intended Changed (2000): proposed A3; animal carcinogen. [Diesel of]		
Cardnogenicity (IARC):	This product is not known to contain any chemicals at reportable quantities that are listed re-group 1, 2A or 2B carcinogens by IARC.		
Carcinogenicity (NTP):	This product is not known to contain any chemicals at importable quantities that are listed as carcinogens by NTP.		
Carcinogenicity (IRIS):	Not available		
Carcinogenicity (OSHA):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.		
ther Considerations	No additional remark.		

Environmental Fate	Not evaliable	Persistance Bioaccumulation Polential	Not avaitable
BODS and COD	Not avallable	Products of Biodegradation	Not avallable

		Page Number: I
Section 13. Disp	osal.Considerations	
Waste Disposal	Preferred waste management priorities are: (1) recycle or reprocess; (2) inclineration with energy recovery; (3) disposal licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements a local disposal regulations. Consult your local or regional authorities.	
Section 14. Tran	sport Information	
TDG Classification	Dicsel Fuel UN1202 3 Itt	Special Provisions Not applicable, for Transport
Section 15. Regu	ilatory.Information	
Other Regulations	CEPA-DSL (Domestic Substance All components of this formulation	as under the provisions of WHMIS-CPR, All components of this formulation are listed on the as List). In are listed on the US EPA-TSCA Inventory.
	Prince of the state of the stat	
DSD/OPD (Europe)	This product has been classified MSDS contains all of the informa	In accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the tion required by the CPR.
DSDIOPD (Europe) ADR (Europe) (Piclograms)	This product has been classified MSDS contains all of the information	In accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the floor required by the CPR. r more information. CLASS: Irritating substance. CLASS: Target organ effects, CLASS: Combustible liquid having a flash point

References Available upon request, "Marque de commerce de Petro-Canada - Tra	demark
Glossary ACGIH - American Conference of Governmental Industrial Hygionists ADR - Agreement on Dangerous goods by Road (Europe) ASTM - American Society for Testing and Materials (BODS - Biological Oxyben Dentand in 5 stays CANCCA B140,2 Propose Installation Code CAS - Chemical Abstract Sandous CEPA - Canadisn Environmental Protection Act CERCLA - Comprehensive Environmental Response, Compensation and Liolality Act CERCLA - Comprehensive Environmental Response, Compensation and Liolality Act CERCLA - Comprehensive Environmental Response, Compensation and Liolality Act CERCLA - Comprehensive Englishions CHIP - Chemicals Hattard Information and Packaging Approved Supply List CODS - Chemical Oxygen Densard in 5 days CPR - Central of Transport DSCL - Densardous Substances Classification and Labeling (Europe) DSCL - Densardous Substances tribances on Penparetions Directives (Europe) DSCL - Densardous Substance List EEC/EU - European Economic Community/European Union EINCES - European Inventory of Edisting Commendal Chemical Substances EPCRA - Federal Inscardous Penparetions System IMMS - Hazardous Communication System IMMS - Hazardous Communication System IMMS - Hazardous Communication Research on Central	RRS - Integrated Rick Information System LDSOLCSU - Lefted Desel Concentration hit 50% LDLat Clar - Lented Published Lefted Deser Concentration NAERGSU - North American Emergency Response Guide Book (19-16) NFPA - Northwest Restaute for Occupational Statety & Hasten NPSI - Northwest Restaute for Occupational Statety & Hasten NPSI - Northwest Restaute Northwest Northwe
For Copy of MSDS	Prepared by Product Safety - 1 AR on 3/2/2001.
Fuels & Solvents: Western Canada, telephone: 403-296-4158; fax: 403-296-8551 Ontario & Central Canada, telephone: 1-800-668-0220; fax: 1-80 Quebec & Eastern Canada, telephone: 514-640-8308; fax: 514-6 For Product Safety Information: (905) 804-4752	Data entry by Product Safety - "DW. 0-837-1228 40-8385

02/13/02 WED 09:40 FAX 8678739460

DISCOVERY MINING MATONABEE PET.

回007 回005

DIESEL FUEL

Pure New hor

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its substitieries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hexards and should be used with caution. Although certain hazards are described berein, we cannot guarantee that these are the only hazards that exist.

AGWAY Material Safety Data Sheet

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

DATE ISSUED: 2/1/96

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- 1. IDENTIFICATION AND EMERGENCY INFORMATION
- SUMMARY OF HAZARDS
 EMERGENCY FIRST AID PROCEDURES
- 4. FIRE AND EXPLOSION
- 5. HEALTH HAZARDS
- 6. PHYSICAL AND CHEMICAL DATA
- 7. PROTECTION AND PRECAUTIONS
- 8. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION
- 9. ENVIRONMENTAL INFORMATION

I. IDENTIFICATION AND EMERGENCY INF	ORMATION Back To Table Of Contents
PRODUCT NAME	CAS NUMBER
GASOLINE (ALL GRADES)	86290-81-5
OTHER NAMES	
Regular/Plus/Premium Unleaded (Conventional, Oxy	ygenated 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	×П
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 Carrients	
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*

	OSHAL PEL	ACGIH TLV	OSHA STEL
Petroleum			f
Distillate Mixture	300 ppm	300 ppm	500 ppm
Benzene		10 ppm	
Ethyl Benzene	1 ppm	10 Mari	
	100 ppm	100 ppm	125 ppm
1,2,4 Trimethyl Benzene	25 ppm	25 ppm	_
Xylene	100 ppm	100 ppm	150 ppm

n/a Methyl Tertiary n/a **Butyl Ether** * 8-Hour Time Weighted Average Unless Otherwise Specified. III. EMERGENCY FIRST AID PROCEDURES Back To Table Of Contents 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 throughly with scap 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 Conference **AUTOIGNITION TEMPERATURE** FLASH POINT 650 F -45 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	PRIMARY ROUTE		
Vapors or mist may cause irritation of the nose and throat, headache, nausea, vomiting, dizziness, drowsiness, cuphoria, 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.	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) Back to Table Of Contents			
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	Back To Table Of Contrats		
The following data are approximate or typical	values and should not be used for precise désign purposes.		
BOILING RANGE (760 mmHg) 95F	MELTING POINT		
	N.A.		
SPECIFIC GRAVITY (H ₂ 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			
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

Buck 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 11

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. ENVIRO	NMENTAL INFORMAT	TION Back To Table Of Control	els .	
EPA INFOR	MATION FOR HAZARI	OOUS CHEMICAL REP	ORTING	
EPA HAZAR	CLASSIFICATION C	ODE		
Acute	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
Hazard	xxx	xxx		
xxx			W.L	
REPORTABI	LE QUANTITY (RQ), EI	PA REGULATION 40 CE	R 302 (CERCLA Section	102)
THRESHOLI	D PLANNING QUANTIT	TY (TPQ), EPA REGULA	ATION 40 CFR 355 (SAR.	A Sections 301-304)
TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)				
COMPONEN	TS	CAS NUMBER	CONCENTRATION	
Petroleum Dist	illate 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 Trimethy	Benzene	95-63-6	0-5%	
Xylene		1330-20-7	0-25%	
Methyl Tertiary	y 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

<u>Do not</u> 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 RODUCT NAME(S) : Motor Oil 10W30 ATE OF MSDS : 1988-05 *** MANUFACTURER INFORMATION *** IANUFACTURER : Recochem Inc : 850 Montee de Liesse DDRESS Montreal Quebec Canada H4T 1P4 Telephone: 514-341-3550 *** SUPPLIER/DISTRIBUTOR INFORMATION *** UPPLIER/DISTRIBUTOR Recochem Inc DDRESS : 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 SECTION I - NOM ET PRODUIT - NAME AND PRODUCT omplete par - Completed by R. Hill May 1988 om du produit - Trade name Motor Oil 10W30 ynonymes - Synonyms Petroleum Oil C.A.S. Registry #64742-50-3 SECTION II - COMPOSES DANGEREUX ET PROPRIETES PHYSIQUES - HAZARDOUS INGREDIENTS AND PHYSICAL PROPERTIES NGREDIENTS DANGEREUX TLV, LD50 AZARDOUS INGREDIENTS (units) ot applicable oint d'ebullition: Not determined oiling point: oint de Fusion: elting Point: Not determined oids specifique (H2O=1): pecific gravity (H20=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
                             Characteristic Petroleum odour
H not applicable
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.D.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)
1 H20 [ ] Acide ~ Acid [ ] Base - Base [ ] Corrosif - Corrosive
                                       [ ] Autres - Others
1 Materiel oxydant - Oxydant material
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
```

tats 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

fateriel de protection individuelle - Specific personal protective equipment

Systeme de respiration - Respiration /etements - Clothing: lot required

devices:

Not required

Ventilation - Ventilation requirements

Normal ventilation adequate

farche a suivre en cas de fuite/renversement - Steps to take if spilled/leaked Clean up with absorbent material.

limination 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 cutanee - Skin absorption: Not hazardous

Contact oculaire - Eye contact: May cause irritation

Not determined Ingestion - Ingestion:

iffets de la surexposition

Not determined - Effects of over-exposure:

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

Flush with running water for at least 15 minutes 'eux - Eyes:

eau - Skin: Wash with soap and water

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

Bource: Breslube Material Safety Data Sheet

RECOCHEM INC .A. HILL

)ATE: 1988-05

Calcium Chloride MATERIAL SAFETY DATA SHEET Identity (Trade Name As Used On Label) CHEMTREK (800) 424-9300 Merck Emergency Phone Number Manufacturer Telex* J892401 Quinton Instrument Co. MSDS Number Distributor 10043-52-4 3303 Monte Villa Parkway CAS Number Address 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) %* PEL RECOMMENDED TLV Calcium Chloride, 10043-52-4 100 Not Not Established Established Non-Hazardous Ingredients 100 TOTAL SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS 2912°F Specific Gravity 2.15 Boiling $(H_2O = 1)$ Point Vapor Pressure NA Melting 1431°F (mm Hg and Temperature) Point NA **Evaporation Rate** Vapor Density NA (Air=1) Solubility 74.5% Water No in Water Reactive White, solid crystals Appearance and Odor SECTION 3 - FIRE AND EXPLOSION HAZARD DATA Flash Point and Auto-Ignition Flammability Limits in Unknown Air % by Volume LEL Method Used Temperature UEL Negligible fire hazard when exposed to heat or flame Extinguisher Media Special Fire Move containers from fire area if you can without risk. Apply cooling water to sides of containers that are 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

SECTION 4 - REACTIVITY HAZARD DATA Conditions STABILITY Anhydrous form reacts exothermically with water. ✓ Stable To Avoid Unstable Boric Acid + Calcium Oxide, Bromine Trifluoride, Furan-2-Peroxycarboxylic Acid, Metals, Methyl Vinyl Ether. Incompatability (Materials to Avoid) Hazardous Thermal decomposition products may include toxic and corrosive fumes of chlorine. Decomposition Products HAZARDOUS POLYMERIZATION Conditions Not Applicable May Occur To Avoid Will Not Occur SECTION 5 - HEALTH HAZARD DATA PRIMARY ROUTES ✓ Inhalation CARCINOGERN ✓ Ingestion ✓ Skin Contact LISTED IN IARC Monograph OF ENTRY Not Hazardous Inhalation - May cause irritation, Skin - May cause severe irritation, erythema, dermatitis. Bye -**HEALTH HAZARDS** Acute & May cause initation and conjunctivitis. Ingestion-Overdose may cause gastrointestinal tract or Chronic cardiovascular irregularities. Irritation-Coughing & shortness of breath. Burning sensation & pain in the nasal cavities, Signs and Symptoms of Exposure oceassional 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 Wash immediately with large amounts of water or normal saline for at least 15 minutes. **Eye Contact** Skin Contact Remove contaminated clothing. Wash area with soap or mild detergent & large amounts of water. Remove from exposure to fresh air immediately. If breathing has stoped, preform artificial respiration. Keep warm and at Inhalation Ingestion If vomiting occurs keep head lower than hips. Get medical attention. SECTION 6 - CONTROL AND PROTECTIVE MEASURES The specific respirator selected must be based on contamination levels found in the work place. Respiratory Protection (Specify Type) Protective Gloves Wear appropriate protective gloves. Eye Protection Wear splash prove and dust resistant Local Exhaust Ventikation To Be Used 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 Or Released Waste Disposal Methods Precautions to be Taken in Handling and Storage Other Precautions and/or Special Hazards HMIS NFPA Health Flammability. Reactivity_ Personal Protection Rating* Special



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 dematitis 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.

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 LCSO 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

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T2W-OA8

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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.

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



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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