APPENDIX 3: MSDS Sheets

Material Safety Data / Fiche signalétique

WESTCOAST DRILLING SUPPLIES LTD. 8069 River Way, Delta, British Columbia, Canada V4G 1L3

Ph. (604) 940-6050 Fax (604) 940-6080

EMERGENCY 1-800-665-6645

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME:

550X® POLYMER

CHEMICAL FAMILY:

Anionic water soluble polymer Drilling mud additive

PRODUCT USE: WHMIS CLASSIFICATION:

Not WHMIS regulated

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICTION:

Not applicable Not applicable Not applicable

PACKAGE GROUP: UN NUMBER (PIN)

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT

PERCENTAGE

CAS NUMBER

LD50

LC50

No hazardous ingredients

SECTION III: HEALTH HAZARDS

ROUTES OF ENTRY

[XXX] Eye Contact [XXX] Skin

[XXX] Inhalation

[XXX] Ingestion

THRESHOLD LIMIT VALVE:

Not determined

SKIN CONTACT:

No effects of exposure expected due to contact.

Prolonged contact may cause slight skin irritation or dermatitis in

some individuals.

EYE CONTACT:

No effects of exposure expected with the exception of mechanical

INGESTION:

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

May cause sneezing, slight irritation of nose and throat. INHALATION:

SECTION IV: FIRST AID MEASURES

SKIN CONTACT:

Wash with soap and water as a precaution. In case of persistent skin

irritation, consult a physician.

EYE CONTACT:

Rinse thoroughly with plenty of water, also under the eyelid. In case

of persistent eye irritation, consult a physician.

INGESTION: INHALATION: The product is not considered toxic based on studies on laboratory

animals. Do not induce vomiting, give 2-3 glasses of water. Move to fresh air. If not breathing give artificial respiration.

Seek medical attention.

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SECTION V: PHYSICAL DATA

White granular solid APPEARANCE ODOR SPECIFIC GRAVITY not determined Not applicable BOILING POINT (°C) SOLUBILITY IN WATER Not determined Forms a gel PERCENT VOLATILE BY VOLUME Not determined Not determined VAPOR PRESSURE (mm Hg)
VAPOR DENGINES Not determined Not determined VAPOR DENSITY (Air=1) 4-9@5g/L

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

not applicable **FLASH POINT** Not determined FLAMMABLE LIMITS Not determined EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING

Aqueous solutions or powders that become wet render surfaces extremely slippery.

PROCEDURES

No special equipment required. UNUSUAL FIRE AND EXPLOSION

HAZARDS

pH

SECTION VII: REACTIVITY DATA

[XXX] Stable [] Unstable STABILITY INCOMPATIBILITY (Conditions to avoid) Oxidizing agents

CONDITIONS OF REACTIVITY Not known NO_X , CO_X HAZARDOUS DECOMPOSTION

PRODUCTS

HAZARDOUS POLYMERIZATION [XXX] Will not occur [] May occur

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550X® POLYMER

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SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Dust masks are recommended where concentration of total

dust is more than 10 mg/m³

VENTILATION PROTECTIVE GLOVES

General mechanical Chemically resistant

EYE PROTECTION

Safety glasses with side shields

OTHER PROTECTIVE EQUIPMENT (Specify)

Not known

ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Do not flush with water. Clean up promptly by sweeping or vacuum Keep in suitable and closed containers for disposal. After cleaning, flush away trace with water.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of the day. Keep in a cool dry place $(0-30~{}^{\circ}\text{C})$

WASTE DISPOSAL METHOD

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

SECTION IX: PREPARATION

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

DATE ISSUED: August, 2001

DATE REVISED: January 2005

BY: Product Safety Committees

WESTCOAST DRILLING SUPPLIES LTD.



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

Product Name	JET B AVIATION TURBINE FUEL	Code	W219 SAP: 150, 151, 152
Synonym	Jet B; Jet B DI; JP-4; Jet F-40; NATO F-40; Turbine Fuel, Aviation, Wide Cut Type (CAN/CGSB-3.22).	Validated	
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3	In case of Emergence	Petro-Canada: 14403-296-3000 Canutec Transportation: 613-996-6666 Poison Control Centre
Material Uses	Used as aviation turbine fuel. May contain a fuel system icing inhibitor.		Consult local telephon directory for emergenc number(s).

Section 2. Composition and Information on Ingredients				Exposure Limits (ACGIH)		
Name		CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
Complex mixture of petroleum hydrocarbons (C6-C14). Benzene Fuel System Icing Inhibitor (FSII) (if added*): Diethylene Glycol Monomethyl Ether Anti-static, antioxidant, corrosion inhibitor and metal deactivator additives. * Please note that Jet B DI, JP-4, Jet F-40 and NATO F-40 all contain Fuel System Icing Inhibitor (FSII).corrosion inhibitor		64741-41-9 71-43-2	>99	Not established 0.5 ppm	Not established 2.5 ppm	Not established Not
		111-77-3	≤0.15	Not established	Not established	Not established
		Not applicable	<0.1	Not applicable	Not applicable	Not applicable
Manufacturer Not applicable Recommendation						
Other Exposure Consult local, st	the state of the s					

Section 3. Haza	Section 3. Hazards Identification.			
Potential Health Effects	Flammable liquid. Exercise caution when handling this material. Skin and eye contact can cause irritation. Inhalation of vapours can cause irritation of the respiratory tract and CNS depression with symptoms of nausea, headaches, vomiting, dizziness, fatigue, light-headedness, reduced coordination, unconciousness and possibly death. Aspiration into the lungs may produce potentially fatal chemical pneumonitis (fluid in the lungs), severe lung damage, or respiratory failure. May cause cancer. May cause teratogenicity/embryotoxicity. For more information refer to Section 11 of this MSDS.			

Section 4. First Aid Measures			
Eye Contact	Quickly and gently blot or brush away chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately.		
Skin Contact	Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with warm water and non-abrasive soap for 5 minutes or until chemical is removed.		
Inhalation	Take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Immediately transport victim to an emergency care facility.		

· JET B AVIATION TURE	INE FUEL	Page Number: 2
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousned Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOM mL (8 to 10 oz) of water to dilute material in stomach. If vomiting occurs reduce risk of aspiration. Repeat administration of water.	IITING. Have victim drink 240 to 30
ote to Physician	Not available	

Flammability	Flammable liquid (NFPA).	Flammable Limits	LOWER: 1.3% UPPER: 8% (NFPA)	
Flash Points	CLOSED CUP: -31°C (-24°F) (NFPA)	Auto-Ignition Temperature	240°C (464°F) (NFPA)	
Fire Hazards in Presence of Various Substances		Explosion Hazards in Presence of Various Substances	Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.	
Products of Combustion	Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), aldehydes, ketones, smoke and irritating vapours as products of incomplete combustion.			
Fire Fighting Media and Instructions	Irritating vapours as products of incomplete combusion. NAERG96, GUIDE 128, Flammable liquids (Non-polar/Water-immiscible). CAUTION: This product has a very low flash point: Use of water spray when fighting fire may be inefficient. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; consider initial evacuation for 800 meters (1/2 mile) in all directions. SMALL FIRES: Dry chemical, CO2, water spray or regular foam. LARGE FIRES: Water spray, fog or regular foam. Do not use straight streams. Move containers from area if you can do it without risk. Fires involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose ho or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in carrising sound from venting devices or any discolouration of tank. ALWAYS stay away from the ends of to For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area let fire burn. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefigit protective clothing will only provide limited protection.		spray when fighting fire may be inefficient. r 800 meters (1/2 mile) in all directions; also ons. straight streams. Move containers from fire mum distance or use unmanned hose holders fire is out. Withdraw immediately in case of ALWAYS stay away from the ends of tanks is; if this is impossible withdraw from area and	

Section 6. Accidental Release Measures

Material Release or Spill

IN THE EVENT OF A LARGE SPILL CONSIDER THE FOLLOWING CONTROL MEASURES: Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. Evacuate non-essential personnel. Extinguish all ignition sources. Ventilate area. Stop leak if safe to do so. Avoid contact with spilled material. Do not allow spilled material to enter sewer systems as vapours may accumulate and may cause an explosion/fire hazard. If spilled in a confined space, ensure appropriate confined space entry protocols are followed. Ensure clean-up personnel wear appropriate personal protective equipment. Use appropriate inert absorbent material to absorb spilled product. Do not use paper or other flammable materials to absorb product. Collect used absorbent for later disposal. Avoid breathing vapours or mists of material. Notify appropriate authorities immediately. mists of material. Notify appropriate authorities immediately.

Section 7. Handling and Storage			
Handling	FLAMMABLE MATERIAL. Handle with care. Avoid contact with any sources of ignition, flames, heat, and sparks. Wear proper personal protective equipment (See Section 8). Ensure all equipment is grounded/bonded. Avoid confined spaces and areas with poor ventilation. Avoid inhalation of product vapours or mists. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning. Personnel who handle this material should practice good personal hygiene during and after handling to help prevent accidental ingestion of this product.		
Storage	Store away from heat and sources of ignition. Store away from incompatible and reactive materials (See section 5 and 10). Ensure the storage containers are grounded/bonded. Keep container tightly closed. Store in dry, cool, well-ventilated area.		

JET B AVIATION TURB	INE FUEL	Page Number: 3
Section 8. Expo	sure Controls/Personal Protection	
Engineering Controls	For normal application, special ventilation is not necessary. If user's operation ventilation to keep exposure to airborne contaminants below the exposure limit supplied to balance air removed by exhaust ventilation. Ensure that eyewast close to work-station.	t. Make-up air should always bo n station and safety shower are
Personal Protectio	 The selection of personal protective equipment varies, depending As a minimum, safety glasses with side shields should be worn when handling 	ng upon conditions of use. this material.
Body	If this material may come into contact with the body during handling and appropriate protective clothing to prevent contact with the skin. (Contact information).	use, we recommend wearing tyour PPE provider for more
	A NIOSH-approved air-purifying respirator with an organic vapour cartridge mist filter (R, or P series) may be permissible under certain circumstances whe expected to exceed exposure limits. Protection provided by air-purifying positive-pressure, air-supplied respirator if there is any potential for uncontroll unknown or any other circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators may not provided by the circumstances where air-purifying respirators where air-purifying respirators may not provided by the circumstances where air-purifying respirators where air-purifying respirators where air-purifying respirators where air-purifying respirators	g respirators is limited. Use a ed release, exposure levels ar provide adequate protection.
Hands	If this material may come in contact with the hands during handling and use, of the following material(s): neoprene, polyvinyl alcohol (PVA), and fluoroprovider for breakthrough times and the specific glove that is best for you base	we recommend wearing glove -elastomer. Consult your PPI
Feet	Wear appropriate footwear to prevent product from coming in contact with feet	and skin.

Physical State and	sical and Chemical Properties	Viscosity	Not available (similar to gasoline)	
Appearance				
Colour	Clear and colourless.	Pour Point	Freezing Point: <-51°C (<-60°F) for Jet B/Jet B DI; <-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°C (122 to 518°F)	Penetration	Not applicable.	
Density	0.75 to 0.80 kg/L @ 15°C (59°F).	Oil / Water Dist. Coefficient	Not available	
Vapour Density	3.5 (Air = 1)	Ionicity (in water)	Not available	
Vapour Pressure	21 kPa (158 mmHg) @ 37.8°C (100°F).	Dispersion Properties	Not available	
Volatility	Volatile.	Solubility	Insoluble in water. Partially miscible in some alcohols. Miscible in other petroleum solvents.	

Corrosivity	Not available		
Stability	The product is stable under normal handling and storage conditions.	Hazardous Polymerization	Will not occur under normal working conditions.
Incompatible Substances / Conditions to Avoid	Can react with strong oxidizing agents, uranium hexafluoride, diborane. Incompatible with halogens and halogen compounds.	Products	May release COx, NOx, SOx, aldehydes, ketones, smoke and irritating vapours when heated to decomposition.

Routes of Entry	Skin contact, eye contact, inhalation and ingestion.
Acute Lethality	Acute toxicity information is not available for the product as a whole, therefore, data for some of th ingredients is provided below:
	Based on toxicity of similar product. Acute oral toxicity (LD50): >5000 mg/kg (rat). Acute dermal toxicity (LD50): >5000 mg/kg (rabbit). Acute inhalation toxicity (LC50): >5000 mg/m³/4h (rat).

		Page Number: 4
	Benzene Acute oral toxicity (LD50): 930 m Acute dermal toxicity (LD50): >9 Acute inhalation toxicity (LC50):	400 mg/kg (rabbit).
	Diethylene Glycol Monomethy Acute oral toxicity (LD50): 4140- Acute dermal toxicity (LD50): >2: Acute inhalation toxicity (LC50):	5180 mg/kg (rat). 000 mg/kg (rabbit).
Chronic or Other Toxic Effect Dermal Route:		. Prolonged or repeated contact may defat and dry skin, and cause
Inhalation Route:	Ingestion of this product may of which may include; weakness, cases of severe overexposure; of	cause Central Nervous System (CNS) Depression, symptoms of dizziness, slurred speech, drowsiness, unconsciousness and in coma and death.
Oral Route:	Ingestion of this product may lea result in chemical pneumonit accumulation of fluid in the lungs	ed to aspiration of the liquid, especially if vomiting occurs. This may tis (inflammation of the lungs) and/or pulmonary edema (ans).
Eye Irritation/Inflammation:	Short-term exposure is expected	to cause only slight irritation, if any.
Immunotoxicity:	Not available	
Skin Sensitization:	Contact with this product is not e and the known hazards of the co	expected to cause skin sensitization, based upon the available data omponents.
Respiratory Tract Sensitization:	Contact with this product is not available data and the known ha	expected to cause respiratory tract sensitization, based upon the zards of the components.
Mutagenic:	Benzene is tumorigenic by RTEC	
Reproductive Toxicity:	reproductive toxicity. Therefor components, this product is not	ntain any components at >= 0.1% that have been shown to cause re, based upon the available data and the known hazards of the expected to be a reproductive toxin.
Teratogenicitý/Embryotoxicity:	This product contains a compo and/or embryotoxicity in labo teratogen/embryotoxin [Diethyle	nent(s) at >= 0.1% that has been shown to cause teratogenicity bratory tests. Therefore, this product is considered to be a ene Glycol Monomethyl Ether].
Carcinogenicity (ACGIH):	ACGIH A1: confirmed human ca	rcinogen. [Benzene]
Carcinogenicity (IARC):	IARC Group 1: carcinogenic to I-	
Carcinogenicity (NTP):	NTP Group 1: known to be a car	rcinogen. [Benzene]
Carcinogenicity (IRIS):	EPA/IRIS Class A: human carcin	
Carcinogenicity (OSHA):	Benzene is an OSHA known car	cinogen.
Other Considerations	No additional remark.	
Section 12. Ecological In	formation	
Environmental Not availa Fate		Persistance/ Not available Bioaccumulation Potential
30D5 and COD Not availa	able	Products of Not available Biodegradation
Additional No additional Remarks	onal remark.	
Cartier 42 Disposal Co.	neidorotions	
Section 13. Disposal Con Waste Disposal Spent/ us authorities	add waste product may meet the	requirements of a hazardous waste. Consult your local or regional and processes are in compliance with government requirements and
I I alia	osal regulations.	
local disp		
Section 14. Transport In	formation VIATION, TURBINE ENGINE, 3,	Special Provisions See Transportation of Dangerous Goods

Section 15. Re	gulatory Information				
ther egulations	This product is acceptable for use under tare listed on the CEPA-DSL (Domestic Sul	the provisions of W bstances List).	HMIS-CPR. All compon	ents of this formulation	~
	All components of this formulation are liste				
	All components of this product are on the (EINECS).				
	This product has been classified in accorda (CPR) and the MSDS contains all of the interest of	ance with the hazare formation required b	d criteria of the Controlle by the CPR.	d Products Regulations	
	Please contact Product Safety for more inf	ormation.			
SD/DPD (Europe	a) Not evaluated.	HCS (U.S.A.)	CLASS: Contains ma cancer. CLASS: Flammable I point lower than 37.8 CLASS: Toxic. CLASS: Irritating sub CLASS: Target organ	ostance.	
DR (Europe) rictograms)	NOT EVALUATED FOR EUROPEAN TRANSPORT NON ÉVALUÉ POUR LE	DOT (U.S.A) (Pictograms)			
MIC (II C A)	TRANSPORT EUROPÉEN. Health Hazard 2° NFPA (U	(S.A.)	Fire Hazard Rating	0 Insignificant	
MIS (U.S.A.)	Fire Hazard 3		Reactivity	1 Slight 2 Moderate	
	Reactivity 0		Specific hazard	3 High	
lossary Cosary C	Personal Protection Pher Information Available upon request. * Marque de commerce de Petro-Canada - Tinference of Governmental Industrial Hygienists Jangerous goods by Road (Europe) iety for Testing and Materials	rademark IRIS - Integrated Risi LD50/LC50 - Lethal I LDLo/LCLo - Lowest NAFRG'96 - North Ar	Dose/Concentration kill 50% Published Lethal Dose/Concentration Emergency Respon	4 Extreme	
eferences CGIH - American Color - Agreement on ESTM - American Soc DD5 - Biological Oxy ANVCGA B149.2 AS - Chemical AbstracPA - Canadian Enverous - Condition of Edera State - Condition of Edera State - Controlled Prod OT - Department of SCL - Dangerous SubJ/DPD - Danger irectives (European EC/EU - European EC/EU - European EC/EU - European Substances	Personal Protection Personal Protection Available upon request. * Marque de commerce de Petro-Canada - Transport Inference of Governmental Industrial Hygienists Jangerous goods by Road (Europe) Itely for Testing and Materials gen Demand in 5 days Propane Installation Code act Services Ironmental Protection Act Pensive Environmental Response, Compensation I Regulations Zard Information and Packaging Approved Supply as System gen Demand in 5 days lucts Regulations Transport Ibstances Classification and Labeling (Europe) ous Substances or Dangerous Preparations lance List conomic Community/European Union Inventory of Existing Commercial Chemical	IRIS - Integrated Risk LD50/LC50 - Lethal I LDLo/LCL0 - Lowest NAERG96 - North A NFPA - National Fire NIOSH - National Ins NRR - New Substar NTP - National Toxic OSHA - Occupationa PEL - Permissible Ex RCRA - Resource Co RTECS - Registry of SARA - Superfund A SD - Single Dose STEL - Short Term E TDG - Transportatior TDLo/TCL0 - Lowest TLM - Median Tolera TLV-TWA - Threshol TSCA - Toxic Substa USEPA - United Stat USP - United Stat USP - United Stat USP - United State USP - United State USP - United State USP - United State	k Information System Dose/Concentration kill 50% Published Lethal Dose/Con- merican Emergency Respon Prevention Association stitute for Cocupational Safet stant Release Inventory noes Notification Regulation clogy Program al Safety & Health Administra reposure Limit onservation and Recovery A Toxic Effects of Chemical S mendments and Reorganiza endments and Reorganiza Exposure Limit (15 minutes) in Dangerous Goods (Canad Published Toxic Dose/Con- ance Limit Id Limit Value-Time Weighte ances Control Act tes Environmental Protection	centration use Guide Book (1996) ty & Health s (Canada) ation uct ubstances ation Act a) centration ad Average in Agency	
diossary CGIH - American Co. DR - Agreement on I STM - American So. DDS - Biological Cxy ANICGA B149.2 AS - Chemical Abstrace FPA - Canadian Env ERCLA - Comprehe d Liability Act FR - Code of Federa HIP - Chemicals Haz st NS - Central Nervous OD5 - Chemical Cyp PR - Controlled Prod OT - Department of SCL - Dangerous Su SD/DPD - Danger irectives (Europe) SL - Domestic Subst EINECS - European Libtances PA - Environmental I PCRA - Emergency DA - Food and Dny IFRA - Federal Inset CS - Hazard Commit LIPEA - Environmental I LIPEA - Environment	Personal Protection Pher Information Available upon request. * Marque de commerce de Petro-Canada - Transport Inference of Governmental Industrial Hygienists Jangerous goods by Road (Europe) iety for Testing and Materials gen Demand in 5 days Propane Installation Code act Services ironmental Protection Act ensive Environmental Response, Compensation I Regulations zard Information and Packaging Approved Supply s System gen Demand in 5 days lucts Regulations Transport bistances Classification and Labeling (Europe) ous Substances or Dangerous Preparations lance List conomic Community/European Union Intrentory of Existing Commercial Chemical Protection Agency Planning and Community Right to Know Act Administration Standard Standard Information System	IRIS - Integrated Risk LD50/LC50 - Lethal I LDLo/LCL0 - Lowest NAERG96 - North A NFPA - National Fire NIOSH - National Ins NRR - New Substar NTP - National Toxic OSHA - Occupationa PEL - Permissible Ex RCRA - Resource Co RTECS - Registry of SARA - Superfund A SD - Single Dose STEL - Short Term E TDG - Transportatior TDLo/TCL0 - Lowest TLM - Median Tolera TLV-TWA - Threshol TSCA - Toxic Substa USEPA - United Stat USP - United Stat USP - United Stat USP - United State USP - United State USP - United State USP - United State	k Information System Dose/Concentration kill 50% Published Lethal Dose/Con- merican Emergency Respon Prevention Association stitute for Cocupational Safet stant Release Inventory noes Notification Regulation cology Program al Safety & Health Administra reposure Limit onservation and Recovery A Toxic Effects of Chemical S mendments and Reorganiza endments and Reorganiza Exposure Limit (15 minutes) in Dangerous Goods (Canad Published Toxic Dose/Con- ance Limit Id Limit Value-Time Weighte ances Control Act tes Environmental Protection Pharmacopoela e Hazardous Material Informi	centration use Guide Book (1996) by & Health s (Canada) eation uct uubstances stion Act a) centration ad Average in Agency eation System	
eferences Ilossary CGIH - American Co. BR - Agreement on I STM - Anerican So. DD5 - Biological Cxy ANI/CGA B149.2 AS - Chemical Abstr. FPA - Canadian Env ERCLA - Comprehe d Liability Act FR - Code of Federa HIP - Chemicals Haz st NS - Central Nervous OD5 - Chemical Cyp PR - Controlled Prod OT - Department of SCL - Dangerous SU SDI/DPD - Danger irectives (Europe) SL - Domestic Subst EI/EU - European Ubstances PA - Environmental I PCRA - Emergency DA - Food and Dny EI/ERA - Federal Insee CS - Hazard Commit MILL Learned In Marchalle Marchalle Marchalle EI/EU - European EI	Personal Protection Personal Protection Available upon request. * Marque de commerce de Petro-Canada - Timerence of Governmental Industrial Hygienists Jangerous goods by Road (Europe) liety for Testing and Materials gen Demand in 5 days Propane Installation Code act Services ironmental Protection Act ensive Environmental Response, Compensation I Regulations are Information and Packaging Approved Supply system gen Demand in 5 days lucts Regulations Transport libstances Classification and Labeling (Europe) ous Substances or Dangerous Preparations lance List conomic Community/European Union Inventory of Existing Commercial Chemical Protection Agency Planning and Community Right to Know Act Administration Standard aterial Information System Ingency for Research on Cancer	IRIS - Integrated Risk LD50/LC50 - Lethal I LDLo/LCL0 - Lowest NAERG96 - North A NFPA - National Fire NIOSH - National Ins NRR - New Substar NTP - National Toxic OSHA - Occupationa PEL - Permissible Ex RCRA - Resource Co RTECS - Registry of SARA - Superfund A SD - Single Dose STEL - Short Term E TDG - Transportatior TDLo/TCL0 - Lowest TLM - Median Tolera TLV-TWA - Threshol TSCA - Toxic Substa USEPA - United Stat USP - United Stat USP - United Stat USP - United State USP - United State USP - United State USP - United State	k Information System Dose/Concentration kill 50% Published Lethal Dose/Con- merican Emergency Respon Prevention Association stitute for Cocupational Safet stant Release Inventory noes Notification Regulation cology Program al Safety & Health Administra reposure Limit onservation and Recovery A Toxic Effects of Chemical S mendments and Reorganiza endments and Reorganiza Exposure Limit (15 minutes) in Dangerous Goods (Canad Published Toxic Dose/Con- ance Limit Id Limit Value-Time Weighte ances Control Act tes Environmental Protection Pharmacopoela e Hazardous Material Informi	centration use Guide Book (1996) ty & Health s (Canada) ation uct ubstances ation Act a) centration ad Average in Agency	

internet:	www.petro-car	ada.ca/msds			Data entry by Produc	ct Safety - JDW.	
Western 900-83	7-1228		da, telephone: 1-800-				
		mation: (905) 804					
nor any containe present	of its subsidia d herein. Final unknown hazai	aries assumes a determination of	nation contained her ny liability whatsor i suitability of any ma e used with caution s that exist.	ever for the acc aterial is the sole	uracy or complete responsibility of th	ness of the info	mation als may
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							,



BIO TECHNICS LIMITED

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MATERIAL SAFETY DATA SHEET **PRODUCT**

OT8

1. DESCRIPTION / PROPERTIES (nature, reactivity):

A unique biological cleaner designed to remove residues of oils, greases and other hydrocarbon products by enhanced bacterial degradation. Aqueous suspension of selected natural bacteria, nutrients and cleaning agents. Cleans off hydrocarbon residues by bacterial oxidation to carbon dioxide and water, with no adverse environmental impact or harmful residues. Application rate is approximately 0.5 - 2.5 square metres per litre depending on surface porosity.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	WEL
Orange terpene	8028-48-6	232-433-8	10 → 30%	Xn	R10,38,65,52/53	-
Dipropylene glycol mono methyl ether	34590-94-8	252-104-2	0 → 5%	-		WEL
Isopropylamine dodecyl benzene sulphonate	26264-05-1	247-556-2	5 → 10%	X _i	R41, 38	-
Alcohol ethoxylate	*	*	0 → 5%	X _n	R22, 41	-

^{*} Proprietary status pending

3. HAZARD INDENTIFICATION

- a) Fire/Explosion Hazard (stability, flammability, combustion products): Product is not classified as combustible or flammable.
- b) Health Hazard (inhalation, ingestion, contact with skin or eyes): Irritating to skin and eyes. Avoid contact with skin and in particular, with the eyes. Low risk from inhalation but avoid excessive inhalation of vapour e.g. on heating etc. Low order of acute oral toxicity but do not ingest.
- c) Environmental Hazard: Not classified as hazardous to the environment.

4. FIRST AID MEASURES

INHALATION

- Low risk in normal usage. Remove to fresh air. Rest and keep warm. If symptoms of distress persist seek medical attention.

SKIN CONTACT - Wash affected area thoroughly with clean water. Remove contaminated clothing and launder before re-use.

EYE CONTACT - Irrigate with plenty of clean water. Obtain medical advice.

INGESTION

- Do not swallow, wash out mouth with water. If swallowed drink water and obtain

medical attention. Do not induce vomiting.

OT-8

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

If involved in a fire, use extinguishing media appropriate to the source of the fire.

Protection for fire fighters:

Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Mark out contaminated area with signs and prevent access to unauthorised personnel.

Environmental Precautions:

Prevent discharge of large quantities to drain or water courses.

Clean up Procedures:

Disperse small spillages with large excess of water. Large spillages - contain, absorb and pick up, place in sealed containers for disposal via licensed contractor. Wash down traces with excess of water.

7. HANDLING AND STORAGE

Handling:

After handling wash hands and face with soap and water.

May be stored for periods over six months in plastic containers as supplied. Avoid temperatures above 45 °C and protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

WEL (2-methoxymethylethoxy)propanol 8hr TWA 50ppm / 308mg/m³ (EH40 2005)

Under normal conditions of use this limit is unlikely to be exceeded.

Engineering Controls: Provide eyewash station. Ensure good natural ventilation.

Personal Protection: Hand: Use protective gloves made of neoprene or nitrile.

Eyes: Wear safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Density at 20°C : 0.95 – 0.97
Vapour Pressure at 20°C : Essentially Water Vapour
Solubility in Water : Disperses
pH : 6.0 - 7.5 pH : Flash Point : N/A

10. STABILITY AND REACTIVITY

Stability: Stable.

Materials to avoid: No known adverse reactions.

Hazardous decomposition products: No typical hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Health Effects:

Respiratory: Not likely to occur.

Irritating to skin on prolonged or repeated skin contact. Skin:

Eyes: Irritating to eyes.

Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, Ingestion:

stomach and intestinal canal.

Date: 09.08.05 File: A42-822 Rev: 0 Page 2 of 3

OT-8

Toxicological Data:

For individual components:

Component	Acute Toxicity
Dipropylene glycol mono methyl ether	LD50 oral (rat): 5000mg/kg
Orange terpenes	LD50 oral (rat): 4400mg/kg
Isopropylamine dodecyl benzene sulphonate	LD50 oral (rat): >2000mg/kg
Alcohol ethoxylate	Oral: 200< LD50<2000mg./kg
	Dermal: LD50>2000mg/kg
	Inhalation: LC50>5mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:

For individual components:

Component	Acute Toxicity
Orange terpenes	EC50 Daphnia magna 48h 12.3mg/L
Alcohol ethoxylate	Fish: 1< LC50<10mg./L
	Daphnia: 1< LC50<10mg/L
	Algor 1/ I C50/10mg/I

Degradability:

All components are readily biodegradable.

Bioaccumulation:

No bioaccumulation is expected. The product is biodegradable and water-soluble.

13. DISPOSAL CONSIDERATION

Disperse small spillages with large excess of water. Return unwanted material to the supplier.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. REGULATORY INFORMATION

Irritant Xi

R36/38 Irritating to skin and eyes.

S02 Keep out of the reach of children.

S26 In case of contact with the eyes rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

Regulatory Information:

UK Regulatory References: The Chemicals (Hazard Information and Packaging for Supply) Regulations

2002.

EH40/2005 Workplace Exposure Limits 2005.
EC Directives: Dangerous Preparations Directive (1999/45/EC

Dangerous Preparations Directive (1999/45/EC). Safety Data Sheets Directive (2001/58/EC).

Approved Code of Practice: The Compilation of Safety Data Sheets.

16. OTHER INFORMATION

PLEASE NOTE:

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.

Signature:	Date: 9 th	August 2005

Date: 09.08.05 File: A42-822 Rev: 0 Page 3 of 3

FROM : Poly-Drill

FAX NO. :4032557185

May, 04 2005 12:00PM P2



Poly-Drill Drilling Systems 1824 - 104 Avenue, S.W. Calgary, Alberta, Canada T2W-OA8 poly-drill.com (403) 259-5112 FAX (403) 255-7185 email: polydril@telus.net www.poly-drlll.com



MATERIAL SAFETY DATA SHEET/FICHE SIGNALETIQUE

PRODUCT IDENTIFICATION

PRODUCT TRADE NAME: PRODUCT DESCRIPTION: CHEMICAL DESCRIPTION: UPDATED March 15, 2004 Poly-Drill 133-X LIQUID ANIONIC POLYMER Polymer, Surfactant(s), Water, Hydrocarbon solvent

NFPA704M/HMIS RATING

3=High

OTHER. 4=Extreme

HEALTH: 0/1 FLAMMABILITY: 1/1 REACTIVITY: 0/0 2=Moderate 0=Insignificant 1=Slight

COMPOSITION

A liquid polymer: Evaluation of the ingredient(s) has found no ingredient(s) hazardous as per WHMIS regulations. None of the substances in this product are hazardous.

PHYSICAL DATA

Flash Point: >100°C (PMCC) Specific Gravity (@ 25°C.): 1.08 Solubility in Water. Emulsifiable pH: 8.1 (1.0% solution) Freeze Point: -10 °C (14 Degrees F) Density (g/ml): 1.08 at 25 °C Physical State: Liquid

Appearance: Blue liquid Odor: Hydrocarbon

Note: These physical properties are typical values for this product.

FIRE AND EXPLOSION DATA

INCOMPATIBILITY: Avoid contact with strong oxidizers (eg. Chlorine, peroxides, chromates, nitric acid, perchiorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

THERMAL DECOMPOSTION PRODUCTS: In the event of combustion CO, oxides of carbon (COx), oxides of nitrogen (NOx) may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

FIRE FIGHTING MEASURES

FLASH POINT: >100°C (PMCC)

ROM : Poly-Drill

FAX NO. :4032557185

May. 04 2005 12:00PM P3

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For larger fires, use water spray or fog, thoroughly drenching the burning material.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water unless flooding amounts are available.

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve oxides of nitrogen (NOx) under fire conditions.

HEALTH HAZARD DATA

EMERGENCY OVERVIEW:

CAUTION: May cause irritation to skin and eyes. Avoid contact with skin, eyes and clothing. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

PRIMARY ROUTE(S) OF EXPOSURE: Eye & Skin

EYE CONTACT: Can cause mild to moderate irritation SKIN CONTACT: Can cause mild, short-lasting irritation

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

EMERGENCY AND FIRST AID PROCEDURES

SKIN: Wash exposed area with soap and water. If imitation 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.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water. Call for medical assistance immediately.

HANDLING, ACCIDENTAL RELEASE MEASURES & DISPOSAL CONSIDERATIONS

Storage: Keep container tightly closed when not in use.

DISPOSAL:

In Ontario, the waste class under Regulation 347 is: 233L

Sook up split with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area.

Contain liquid using absorbent material, by digging trenches or by dyking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact approved waste hauter for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated.

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal gerbage.

Bayswater Uranium Corp. Contingency Plan

FROM : Poly-Drill

FRX NO. :4032557185

May. 04 2005 12:01PM P4

ENVIRONMENTAL PRECAUTIONS

This product should NOT be directly discharged into lakes, ponds, streams, waterways or public water supplies

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid waste can also be incinerated in accordance with local, state, provincial and federal regulations.

INDUSTRIAL HYGIENE CONTROL MEASURES

OCCUPATIONAL EXPOSURE LIMITS:

This product does not contain any substance that has an established exposure limit.

Respiratory Protection: None normally required.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

Ventilation: General ventilation is recommended.

Eye Protection: Safety glasses, if personally preferred

Gioves: Generally not necessary. Personal preference. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton, and butyl (compatibility studies have not been performed).

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

TOXICOLOGICAL PROPERTIES

SENSITIZATION:

This product is not expected to be a sensitizer.

A "LC50-96" Pass/Fail Bioassay test. This test determines the lethality of a fluid on young aquatic organisms. The fluid falls if 50% or more of the animals are dead after 96 hours in the fluid.

96 hour static acute LC50 to Rainbow Trout = Greater than 1,000 mg/L

96 hour no observed effect concentration = 125 mg/L based on no mortality or abnormal effects

96 hour static acute LC50 to Sheepshead Minnow = Greater than 1,000 mg/L

96 hour no observed effect concentration = 1,000 mg/L (highest concentration tested) based on no mortality or abnormal effects.

96 hour static acute LC50 to Mysid Shrimp = 400 mg/L 96 hour no observed effect concentration = 180 mg/L based on no mortality or abnormal effects.

96 hour static acute LC50 to Daphnia Magna - 400 mg/L

96 hour no observed effect concentration = 56 mg/L (lowest concentration tested) based on no mortality or abnormal effects.

Microtoxicity

The Microtox bioassay has been established as the reference test for mud additive toxicity testing.

Test Method: Luminescent Bacteria, IC50@ 15 min

Reference: Appendix 1: Microtox Bloassay Procedure, Drilling Waste Management, Guide G50. 1993. Alberta

Energy and Utilities Board, Calgary, AB, Canada.

Sample: Poly Drill 1330, sample #97324-1 for test #970723, 97/05/09 by D. Lintott

Preparation: Sample was diluted to 2 g/L, which formed thick, slightly cloudy liquid. The sample was then centrifuged for 1 hour.

ROM : Poly-Drill

FAX NO. :4032557185

May. 04 2005 12:01PM P5

Test Results:

SAMPLE	TREATMENT	%CTL	IC20%	IC50	RESULT
97324-1	None	N/A	14 (9-22)	>91	PASS

The following results are for a 1% aqueous solution of product.

CARCINOGENCITY:

None of the substances in this product are listed as carcinogens by the International Agency for Research on · Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Government Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION:

Based on our Hazard Characterization, the potential human hazard is: LOW

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION: Based on our Hazard Characterization, the potential environmental hazard is: LOW.

11. DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME/HAZARD CLASS MAY VARY BY PACKAGING, PROPERTIES, AND MODE OF TRANSPORTATION. TYPICAL PROPER SHIPPING NAMES FOR THIS PRODUCT ARE:

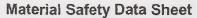
ALL TRANSPORTATION MODES: PRODUCT IS NOT REGULATED DURING TRANSPORATION

Shipping Name: Liquid Drilling Additive Hazard Class: Not hazardous Cautionary Labeling: None required

14. OTHER INFORMATION

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





MSDS ID NO.: Revision date: 0133SPE012 01/30/2004

E TO SECTION NUMBER CAMBION CONTRACTOR COMPANY CONAUGER MARIANIAN MARKANGER I MARE. TO SECTION NUMBER CONTRACTOR CONTRACT

Product name:

SSA Propane

Synonyms:

Liquified Petroleum Gas, SSA; LPG, SSA; Propane, SSA; SSA Liquified Petroleum

Gas

Chemical Family:

Aliphatic Hydrocarbon

Formula:

CH3CH2CH3

Supplier:

Speedway/Superamerica LLC

P O BOX 1500 ENON OH 45501

Other information:

419-421-3070

Emergency telephone number: 877-627-5463

THE RECOMPLEMENTATION AND THE REPORT OF THE PROPERTY OF THE PR

Propane is an aliphatic petroleum hydrocarbon, Ethyl mercaptan (15-25 ppm) is added as an odorant. The odor threshold of the mercaptan is 1 ppb.

Product information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
SSA Propane	74-98-6	100	= 2500 ppm TWA	= 1000 ppm TWA = 1800 mg/m³ TWA	

Component Information

Name	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA - Vacated PELs - Time Weighted Ave	Other:
Propane	74-98-6	90-100	= 2500 ppm TWA	= 1000 ppm TWA = 1800 mg/m³ TWA	
Propylene	115-07-1	1-5			ACGIH Simple asphyxiant
Ethane	74-84-0	000.5000 - 003.0000			ACGIH Simple asphyxiant*
Butane & Heavier	Mixture	0-2.5			
Sulfur	7704-34-9	< 000.0100			

Notes:

The manufacturer has voluntarily elected to reflect exposure limits contained in OSHA's 1989 air contaminants standard in its MSDS's, even though certain of those exposure limits were vacated in 1992.

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EMERGENCY OVERVIEW

MSDS ID NO.: 01335PE012

Product name: SSA Propane

Page 1 of 9

PROPANE IS A COLORLESS GAS OR LIQUID STENCHED WITH A FOUL SULFUR SMELLING ODORANT. IT IS SHIPPED OR TRANSPORTED AS A LIQUIFIED GAS UNDER PRESSURE. THIS PRODUCT IS EXTREMELY FLAMMABLE AND EXPLOSIVE. AT HIGH CONCENTRATIONS THIS PRODUCT IS A SIMPLE ASPHYXIANT, WHICH DISPLACES OXYGEN FROM THE BREATHING ATMOSPHERE. MAY CAUSE SKIN AND EYE BURNS UPON LIQUID CONTACT. LARGE RELEASES CAN CREATE A FLAMMABLE VAPOR CLOUD.

OSHA WARNING LABEL:

DANGER! EXTREMELY FLAMMABLE. LIQUID AND GAS UNDER PRESSURE. LIQUID CAN CAUSE FROST BURNS.

CONSUMER WARNING LABEL:

A CONSUMER WARNING LABEL IS NOT APPLICABLE FOR THIS PRODUCT.

Inhalation:

Product is an anesthetic at high concentrations, producing dizziness, headache, incoordination and narcosis; extremely high concentrations can cause asphyxiation

and death by displacement of oxygen from the breathing atmosphere.

Ingestion:

Ingestion not likely.

Skin contact:

Vapor is generally non-irritating to skin. Direct contact with liquified product can

. cause "cold burn" or frostbite.

Eye contact:

Vapor is generally non-irritating to eyes. Direct contact with liquified product can

cause "cold burn" or frostbite.

Carcinogenic Evaluation:

Product information

Name	IARC:	NTP:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
SSA Propane 74-98-6	NE			

Notes:

The International Agency for Research on Cancer (IARC) has not evaluated this

product.

Component Information

Name	IARC:	NTP:	ACGIH - Carcinogens:	OSHA - Select Carcinogens:
Propylene 115-07-1			A4 - Not Classifiable as a Human Carcinogen	

Notes:

The International Agency for Research on Cancer (IARC) has concluded that propylene is not classifiable as to its carcinogenicity to humans (Group 3).

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Inhalation:

If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not

breathing or if no heartbeal, give artificial respiration or cardiopulmonary

resuscitation (CPR). Immediately call a physician.

Skin contact:

If liquified product has caused a "frost burn", remove contaminated clothing. Thaw frostbitten areas slowly with lukewarm water or by wrapping affected areas with blankets. Do not rub affected areas. Let circulation reestablish itself naturally,

exercising area if possible. Call a physician.

MSDS ID NO.: 0133SPE012

Product name: SSA Propane

Page 2 of 9

Ingestion:

Ingestion not likely If swallowed, immediately call a physician.

Eye contact:

Liquid: Flush with large amounts of tepid water for at least 15 minutes. Immediately

call a physician.

Gas: Call a physician if symptoms or irritation occur.

The charge of the content of the s

exposure:

Medical conditions aggravated by Inhalation of high vapor concentrations of components of this product in animals has produced cardiac sensitization. Such sensitization may cause changes in heart rhythms. This latter effect was shown to be enhanced by oxygen deficiency or the

injection of adrenalin-like agents.

Suitable extinguishing media:

Specific hazards:

Special protective equipment for firefighters:

Flash point: Autoignition temperature: Flammable limits in air - lower (%): Flammable limits in air - upper (%):

NFPA rating: Health: 1 Flammability 4 Reactivity: 0 Other: -

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFT/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

This product has been determined to be a flammable gas/liquid per the OSHA Hazard Communication Standard, and should be handled accordingly. For additional fire related information see NFPA 30 or North American Emergency Response Guide 115.

Bleve's (boiling liquid expanding vapor explosions) can occur when a liquid in a pressurized container in close proximity to a fire reaches a temperature well above its boiling point. Its effect could lead to a catastrophic failure of the vessel resulting in flying equipment fragments, a shock wave and a fireball causing serious damage and death. Isolate hazard area. If safe to do so, stop the flow of gas and allow fire to burn out. Extinguishing the flame before shutting off the supply can cause the formation of explosive mixtures. In some cases it may be preferred to allow the flame to continue to burn. Use extreme caution when fighting liquefied petroleum gas fires. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Avoid use of solid water streams. Contact with water and liquified product can cause increased vaporization.

871 F 2.1 9.5

-156 F

HMIS classification: Health: 1 Flammability: 4 Reactivity: 0

Special: *See Section 8 for guidance in selection of

personal protective equipment.

Personal precautions:

Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Leaking containers should be moved outdoors or to well-ventilated area and contents transferred to a suitable container. Product vapor is heavier than air and can collect in low areas that are without sufficient ventilation. Advise authorities and National Response Center (800-424-8802) if substance has entered a watercourse or sewer.

MSDS ID NO.: 0133SPE017

Product name: SSA Propane

Handling:

Product is stored as a liquid but used in the gaseous state. Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Avoid overpressurizing or overfilling cylinders. Do not cut, drill, grind or weld on empty containers since they may contain explosive residues.

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Avoid repeated and prolonged skin contact. Exercise good personal hygiene including removal of soiled clothing and prompt washing with soap and water.

PERSONAL PROTECTIVE EQUIPMENT

Engineering measures: Local or general exhaust required in an enclosed area or with inadequate ventilation.

Respiratory protection: Use atmosphere supplying respirators in the event of oxygen deficiency, when

material produces vapors that exceed permissible limits or when excessive vapors are generated. Observe respirator protection factor criteria cited in ANSI Z88.2.

Self-contained breathing apparatus should be used for fire fighting.

Skin and body protection: Wear insulated gloves to prevent skin contact and frostbite.

Eve protection: Use goggles or face-shield if there is a potential for splashing.

Hygiene measures: Use mechanical ventilation equipment that is explosion-proof.

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Appearance: Colorless Liquified Gas
Physical state (Solid/Liquid/Gas): Liquid

Physical state (Solid/Liquid/Gas): Liquid
Substance type (Pure/Mixture): Pure
Color: Colorless

Odor: Rotten-egg.

Molecular weight: Not determined.

pH: No data available.

Boiling point/range: -43.7 F

Melting point/range: -305.8 F

Decomposition temperature: Not applicable.

Decomposition temperature:

Specific gravity:

Density:

Not applicable.
51 Liquid
4.4 lbs/gal @ 32 F

Bulk density:

Vapor density:

No data available
1.56

Vapor pressure: 7600 mm Hg @ 80 F 147 PSI @ 80 F

Evaporation rate:

Solubility:

Solubility in other solvents:

Partition coefficient (nectanol(water):

No data available.

No data available.

Partition coefficient (n-octanol/water):

VOC content(%):

Viscosity:

No data available.

No data available.

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Stability: The material is stable at 70 F, 760 mm pressure.

MSDS ID NO.: 0133SPE012 Product name: SSA Propane Page 4 of 9

Polymerization:

Will not occur.

Hazardous decomposition products:

Combustion produces carbon monoxide.

Materials to avoid:

Strong oxidizers such as nitrates, perchlorates, chlorine,

fluorine.

Conditions to avoid:

Sources of heat or ignition.

Acute toxicity:

Product information

Product information				
Name	CAS Number	Inhalation:	Dermal:	Oral:
SSA Propane	74-98-6	>4000,000 ppm for 6 hr (Raf)	nia	n/a

Some of the major components of this product are considered to be simple asphyxiant gases without significant potential for systemic toxicity. At high concentrations, these gases act as asphyxiants by diluting and displacing oxygen. Symptoms of persons exposed to oxygen deficient atmospheres include headache, dizziness, incoordination, cyanosis and narcosis. Extremely high concentrations can produce unconsciousness followed by death.

At extremely high concentrations and excessive exposure conditions components of this product may produce cardiac sensitization.

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Ecotoxicity effects:

Liquid product is not toxic to aquatic life or waterfowl. The aquatic 96 hour TLM for propane is >100 ppm.

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Cleanup Considerations:

This product as produced is not specifically listed as an EPA RCRA hazardous waste according to federal regulations (40 CFR 261). However, when discarded or disposed of, it may meet the criteria of an "ignitable" hazardous waste (D001). This material could become a hazardous waste if mixed or contaminated with a hazardous waste or other substance(s). It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations. Bleeding off small amounts of this product into the atmosphere or controlled incineration of large amounts are potential disposal methods provided all regulatory requirements are met.

Sec. 1

49 CFR 172.101:

DOT:

Transport Information:

This material when transported via US commerce would be regulated by DOT

Regulations.

Proper shipping name: UN/Identification No: Hazard Class: Propane UN 1978

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MSDS ID NO.: 0133SPE012

Product name: SSA Propane

Page 5 of 9

Bayswater Uranium Corp. Contingency Plan

Packing group:

DOT reportable quantity (lbs):

Not applicable. Not applicable.

TDG (Canada):

Proper shipping name: UN/Identification No: Hazard Class:

Propane UN 1978 2.1 Not applicable

Not applicable

Packing group: Regulated substances:

The state of the s

Federal Regulatory Information:

US TSCA Chemical Inventory Section 8(b):

This product and/or its components are listed on the TSCA

Chemical Inventory.

OSHA Hazard Communication Standard:

This product has been evaluated and determined to be hazardous as defined in OSHA's Hazard Communication

Standard.

EPA Superfund Amendment & Reauthorization Act (SARA):

SARA Section 302:

This product contains the following component(s) that have been listed on EPA's

Extremely Hazardous Substance (EHS) List:

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Propane	NA NA
Propylene	NA NA
Ethane	NA
Butane & Heavier	NA
Sulfer	NA

SARA Section 304:

This product contains the following component(s) identified either as an EHS or a CERCLA Hazardous substance which in case of a spill or release may be subject to SARA reporting requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Propane	NA NA
Propylene	NA NA
Ethane	NA
Butane & Heavier	NA NA
Sulfur	NA NA

SARA Section 311/312:

The following EPA hazard categories apply to this product:

Acute Health Hazard

Fire Hazard.

Sudden Release Of Pressure.

SARA Section 313:

This product contains the following component(s) that may be subject to reporting on the Toxic Release Inventory (TRI) From R:

Name	CERCLA/SARA 313 Emission reporting:	
Propane	None	
Propylene	= 1.0 percent de minimis concentration	
Ethane	None	
Butane & Heavier	None	
Sulfur	None	

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

MSDS ID NO.: 0133SPE012

Product name: SSA Propane

Page 6 of 9

Propane		
Louisiana Right-To-Know:	Not Listed	
California Proposition 65:	Not Listed	
New Jersey Right-To-Know:	sn 1594	
Pennsylvania Right-To-Know:	Present Present	
Massachusetts Right-To Know: Florida substance List:	Not Listed.	
Rhode Island Right-To-Know:	Toxic, Flammable	
Michigan critical materials register list:	Not Listed.	
Massachusetts Extraordinarily Hazardous Substances:	Not Listed	
California - Regulated Carcinogens:	Not Listed	
Pennsylvania RTK - Special Hazardous Substances:	Not Listed	
New Jersey - Special Hazardous Substances:	flammable - fourth degree	
New Jersey - Environmental Hazardous Substances List: Illinois - Toxic Air Contaminants	SN 1594 Not Listed	
New York - Reporting of Releases Part 597 -	Not Listed	
List of Hazardous Substances:		
Propylene	hlat Listad	
Louisiana Right-To-Know:	Not Listed Not Listed	
California Proposition 65:	sn 1609	
New Jersey Right-To-Know: Pennsylvania Right-To-Know:	environmental hazard	
Massachusetts Right-To Know:	Present	
Florida substance List:	Not Listed.	·
Rhode Island Right-To-Know:	Toxic, Flammable	
Michigan critical materials register list:	Not Listed.	
Massachusetts Extraordinarily Hazardous Substances:	Not Listed	
California - Regulated Carcinogens:	Not Listed	
Pennsylvania RTK - Special Hazardous Substances: New Jersey - Special Hazardous Substances.	Not Listed flammable - fourth degree	
New Jersey - Environmental Hazardous Substances List:	SN 1609	
Illinois - Toxic Air Contaminants	Not Listed	
New York - Reporting of Releases Part 597 - List of Hazardous Substances:	Not Listed	
Ethane Louisiana Right-To-Know:	Not Listed	
California Proposition 65:	Not Listed	
New Jersey Right-To-Know:	sn 0834	
Pennsylvania Right-To-Know:	Present	
Massachusetts Right-To Know:	Present	
Florida substance List:	Not Listed.	
Rhode Island Right-To-Know:	Toxic	
Michigan critical materials register list:	Not Listed.	
Massachusetts Extraordinarily Hazardous Substances:	Not Listed Not Listed	
California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous	Not Listed	
Substances:		
New Jersey - Special Hazardous Substances:	flammable - fourth degree	
		Page 7 of 9
MSDS ID NO.: 0133SPE012 Product name: SSA	r Liobau g	, age , or a

	New Jersey - Environmental Hazardous	SN 0834; NJ uses UN1035 for reporting purposes
	Substances List:	and the same of th
	Illinois - Toxic Air Contaminants	Not Listed
	New York - Reporting of Releases Part 597 -	Not Listed
	List of Hazardous Substances:	
ula	ene & Heavier	
	Louisiana Right-To-Know:	Not Listed
	California Proposition 65:	Not Listed
	New Jersey Right-To-Know:	Not Listed.
	Pennsylvania Right-To-Know:	Not Listed.
	Massachusetts Right-To Know:	Not Listed.
	Florida substance List:	Not Listed.
	Rhode Island Right-To-Know:	Not Listed
	Michigan critical materials register list:	Not Listed.
	Massachusetts Extraordinarily Hazardous	Not Listed
	Substances:	Not Listed
	California - Regulated Carcinogens: Pennsylvania RTK - Special Hazardous	Not Listed
	Substances:	TO LINES
	New Jersey - Special Hazardous Substances:	Not Listed
	New Jersey - Environmental Hazardous	Not Listed
	Substances List:	
	Illinois - Toxic Air Contaminants	Not Listed
	New York - Reporting of Releases Part 597 -	Not Listed
	List of Hazardous Substances:	
ulf		
	Louisiana Right-To-Know:	Not Listed
	California Proposition 65:	Not Listed
	New Jersey Right-To-Know;	sn 1757
	Pennsylvania Right-To-Know:	[present]
	Massachusetts Right-To Know:	Present
	Florida substance List:	Not Listed.
	Rhode Island Right-To-Know:	Flammable
	Michigan critical materials register list:	Not Listed.
	Massachusetts Extraordinarily Hazardous Substances:	Not Listed
	California - Regulated Carcinogens:	Not Listed
	Pennsylvania RTK - Special Hazardous	Not Listed
	Substances:	
	New Jersey - Special Hazardous Substances.	Not Listed
	New Jersey - Environmental Hazardous	Not Listed
	Substances List:	
	Illinois - Toxic Air Contaminants	Not Listed
	New York - Reporting of Releases Part 597 -	Not Listed
	List of Hazardous Substances:	

Canadian Regulatory Information:

Canada DSL/NDSL Inventory.

This product and/or its components are listed either on the Domestic Substances List (DSL) or the Non Domestic Substance List (NDSL).

and the control of th		Canada - WHMIS: Ingredient Disclosure:
Name	Canada - WHMIS: Classifications of Substances:	Canada - Writins: Higherient Discressive.
Propane	A: B1	
Propylene	A; 81	
Ethane	A; B1	
Sulfur	84	

MSDS ID NO.: 0133SPE012

Product name: SSA Propane

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Entra and a desirate and a management of the contraction of the contra

Additional Information:

No data available.

Prepared by:

Craig M. Parker Manager, Toxicology and Product Safety

The information and recommendations contained herein are based upon tests believed to be reliable. However, Speedway SuperAmerica (SSA) does not guarantee their accuracy or completeness nor shall any of this information constitute a warranty, whether expressed or implied, as to the safety of the goods, the merchantability of the goods, or the fitness of the goods for a particular purpose. Adjustment to conform to actual conditions of usage maybe required. SSA assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

End of Safety Data Sheet

MSDS ID NO.: 0133SPE012

Product name: SSA Propane

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MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: Diversity Technologies Corp. DATE: Dec. 19, 2005

8750 – 53rd Ave. PHONE: 604-940-6050

Edmonton, AB T6E 5G2 FAX: 604-940-6080

PRODUCT NAME: BIG BEAR ROD GREASE

PRODUCT USE: Anti-seize compound

CHEMICAL FAMILY: Mixture CAS #: Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not WHMIS regulated.

WORKPLACE HAZARD: Not hazardous under normal conditions of use.

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not TDG regulated.
TDG CLASSIFICATION: Not applicable.
UN NUMBER (PIN): Not applicable.
PACKING GROUP: Not applicable.

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT% (w/w)CAS NUMBER
64742-52-5LDsoOral-Rat
Not availableLCsoInhal-Rat
Not availableACGIH-TLV
Not availableBarium soap20-3068201-19-4Not availableNot availableNot available

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [XX] SKIN [] INHALATION [XX] INGESTION

EYE CONTACT: May cause slight transient irritation. SKIN CONTACT: May cause slight transient irritation.

INGESTION: No effects known.

INHALATION: Not a likely source of contact during normal use.

CARCINOGENICITY: None of the ingredients in the compound are listed by NTP, IARC or

OSHA as being carcinogenic.

TERATOGENICITY: No information available.

Page 2 of 4

Big Bear Rod Grease

REPRODUCTIVE

TOXICITY:

No information available.

MUTAGENICITY:

No ingredients listed as mutagenic.

SYNERGISTIC PRODUCTS:

No information available.

SECTION IV: FIRST AID MEASURES

Remove by wiping, or with a waterless hand cleaner. Wash with soap SKIN CONTACT:

> and water. Remove and launder contaminated clothing before re-use. Immediately flush with gently flowing warm water until all residual

EYE CONTACT: material is removed. Remove contact lenses if present. Hold eyelids open to ensure thorough flushing. If irritation persists, obtain medical

Do not induce vomiting. Rinse mouth. Obtain immediate medical INGESTION:

attention. Never give anything by mouth to an unconscious or

convulsing victim.

Move to fresh air. Apply oxygen or artificial respiration as required. If INHALATION:

breathing difficulties or distress continues, obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR: Brown paste; bland odour

0.90 @ 16°C SPECIFIC GRAVITY:

BOILING POINT (°C): 204 MELTING POINT (°C): Insoluble SOLUBILITY IN WATER:

Not available

PERCENT VOLATILE BY VOLUME: Not available **EVAPORATION RATE:** Not available VAPOUR PRESSURE: Not available VAPOUR DENSITY (air = 1): Not applicable **BULK DENSITY:**

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

188°C FLASH POINT: Not available FLAMMABLE LIMITS:

Dry chemical, CO₂, foam or water spray. EXTINGIUSHING MEDIA:

Self-contained breathing apparatus required for fire SPECIAL FIRE FIGHTING fighting personnel. Remove containers from fire PROCEDURES:

area, or cool with water spray, if possible.

pH: Not available

Big Bear Rod Grease

Page 3 of 4

UNUSUAL FIRE AND **EXPLOSION HAZARDS:** This product may burn under fire conditions.

SECTION VII: REACTIVITY DATA

STABILITY:

STABLE [XX]

UNSTABLE []

INCOMPATIBILITY

Strong oxidizers. Avoid heat, sparks and open

(CONDITIONS TO AVOID): CONDITIONS OF REACTIVITY: flames.

Contact with incompatibles or ignition sources.

HAZARDOUS DECOMPOSITION

May release CO_x, smoke and irritating vapours when heated to decomposition.

PRODUCTS:

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Not required under normal conditions of use.

VENTILATION:

Not required under normal conditions of use.

PROTECTIVE GLOVES:

Suggest neoprene or viton.

EYE PROTECTION:

Safety glasses with side-shields if required. Protective clothing as required to prevent contact.

OTHER PROTECTIVE EQUIPMENT

Ensure eyewash station and emergency shower are

(Specify):

available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid contact with skin and eyes. Avoid ingestion. Wash thoroughly before eating, drinking or smoking. Store in cool, dry area away from incompatibles and sources of ignition. Use caution when opening unvented containers. Use in well ventilated area. Store unused material in original container.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment. Eliminate ignition sources. Scoop up excess, then wipe down the affected area and pick up residual with diatomaceous earth to prevent slipping hazard. Place contaminated material and clean up materials in approved containers for disposal.

WASTE DISPOSAL METHOD

Dispose/incinerate in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Dispose of, or recycle, empty containers in accordance with local regulations.

Big Bear Rod Grease

Page 4 of 4

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: SUPERSEDES:

December 20, 2005 March 31, 2003

BY:

Product safety committee

PHONE: 780-440-4923

REGULAR UNLEADED GASOLINE

Section 1	Chemical	Product	and Company	Information

SUPPLIER'S NAME ... NOCO ENERGY CORP SUPPLIER NUMBER...... 1-800-500-6626 SUPPLIER IDENTIFIER...... Conventional Gasoline

EMERGENCY PHONE NUMBER 1-800-424-9300 Chemirec 87 Octane, 89 Octane, 93 Octane

PRODUCT USE...... Motor Fuel

Section 2 Composition/Information on Ingredients

Component	CAS No.	Amount (Vol%)
LIGHT PETROLEUM DISTILLATE	8006-61-9	0 - 99.9
TOLUENE	108-88-3	0 - 30
XYLENE	1330-20-7	0 - 25
CYCLOHEXANE	110-82-7	0-9
ETHYL BENZENE	100-41-4	0-5
N-HEXANE	110-54-3	0 - 5
NAPHTHALENE	91-20-3	0 - 5
1.2.4-TRIMETHYLBENZENE	95-63-6	0 - 5
BENZENE	71-43-2	0.1 - 4.9
CUMENE	98-82-8	0 - 1

EXPOSURE GUIDELINES

A A STATE OF THE S	CAS No.	Governing Body	Exposure Limits		
BENZENE	71-43-2	ACGIH	STEL	2.5	ppm
BENZENE	71-43-2	OSHA	STEL	5	ppm
BENZENE	71-43-2	ACGIH	TWA	0.5	ppm
BENZENE	71-43-2	OSHA	TWA	1	ppm
CUMENE	98-82-8	ACGIH	TWA	50	ppm
CUMENE	98-82-8	OSHA	TWA	50	ppm
CYCLOHEXANE	110-82-7	ACGIH	TWA	100	ppm
CYCLOHEXANE	110-82-7	OSHA	TWA	300	ppm
ETHYL BENZENE	100-41-4	ACGIH	STEL	125	ppm
ETHYL BENZENE	100-41-4	ACGIH	TWA	100	ppm
ETHYL BENZENE	100-41-4	OSHA	TWA	100	ppm
N-HEXANE	110-54-3	ACGIH	TWA	50	ppm
N-HEXANE	110-54-3	OSHA	TWA	500	ppm
NAPHTHALENE	91-20-3	ACGIH	STEL	15	ppm
NAPHTHALENE	91-20-3	ACGIH	TWA	10	ppm
NAPHTHALENE	91-20-3	OSHA	TWA	10	ppm
TOLUENE	108-88-3	OSHA	C	300	ppm
TOLUENE	108-88-3	NIOSH	STEL	150	ppm
TOLUENE	108-88-3	ACGIH	TWA	50	ppm
TOLUENE	108-88-3	OSHA	TWA	200	ppm
XYLENF	1330-20-7	ACGIH	STEL	150	ppm
XYLENE	1330-20-7	ACGIH	TWA	100	ppm
XYLENE	1330-20-7	OSHA	TWA	100	ррт
LIGHT PETROLEUM DISTILLATE	8006-61-9	ACGIH	STEL	500	ppm
LIGHT PETROLEUM DISTILLATE	8006-61-9	ACGIH	TWA	300	ppm

10:11/2004



REGULAR UNLEADED GASOLINE

Section 3 Fire a	Section 3 Fire and Explosion Hazard of Product				
CONDITIONS OF FLAMMABILITY. MEANS OF EXTINCTION.	Danger! Extremely flammable liquid! Vapors may explode! Use dry chemical, foam or carbon dioxide to extinguish fire. Use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water to flush spills away from sources of ignition. Do not flush down public sewers.				
FLASHPOINT & METHOD OF DETERMINATION	-37.60°C (-35°F) TCC 7.6 1.4 .444.00°C (833°F)				
SENSITIVITY TO STATIC DISCHARGE	N/A.				

Hazards Ratings:

Kev: 0 = least.	1 = slight	. 2 = mode	rate, 3 = hig	h, $4 = extreme$	
		Health	Fire	Reactivity	PPI
NEPA		1	3	0	
HMIS		2	3	0	X

Section 4 First Aid Measures			
IFIC FIRST AID PROCEDURES			
SKIN CONTACT	Remove contaminated clothing immediately. Wash area of contact thoroughly with soap and water. Get medical attention if irritation persists. High pressure injections are serious medical emergencies. Get immediate medical attention.		
INGESTION	DO NOT INDUCE YOMITING BECAUSE OF DANGER OF ASPIRATING LIQUID INTO LUNGS. Get immediate medical attention. If anontaneous yomiting occurs, monitor for breathing difficulty.		
INHALATION	Remove affected person from source of exposure. If not breathing ensure open airway and institute CPR. If breathing is difficult, administer oxygeg if available. Get medical attention.		
EYE CONTACT	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from eyeball to ensure thorough rinsing. Get medical attention if imitation persists.		

Section 5 Fire Fighting Measures

EXTINGUISHING MEDIA The following media may be used to extinguish a fire involving this material: Water spray: Regular foam: Dry chemical: Carbon dioxide:

FIRE FIGHTING INSTRUCTIONS

Use water spray to cool fire exposed tanks and containers. Wear structural fire fighting gear. As in any fire, wear self-contained breathing apparatus pressure-demand. MSHA/NIOSH (approved or equivalent) and full protective gear.

SPECI



REGULAR UNLEADED GASOLINE

Section 5 Fire Fighting Measures (continued)

FLAMMABLE PROPERTIES

	Typical	Minimum	Niaximum	Text Result	Units	Method
Flash Point				-40 ESTIMATED	F	NIA
Autoignition Temperature				750 ESTIMATED	L.	N/A
Lower Explosion Limit	1.5			100 mg	%	N/A
Upper Explosion	7.6		discontinuos de la contraction del la contraction de la contractio	Make with print of the second	%	N/A

Section 6 Accidental Release Measures

ACTIVATE FACILITY SPILL CONTINGENCY OF EMERGENCY PLAN

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction: Stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater. Professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if it is safe to do so. Protect bodies of water by diking, absorbents or absorbent boom. Do not flush down sewer or drainage system. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or area/equipment that require protection.

Take up with sand or other absorbent materials. Carefully shovel or sweep up into a waste container for reclamation or disposal—use caution because flammable vapors may accumulate in closed containers.

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see section 8)

Section 7 Handling and Storage

HANDLING

Use only in a well-ventilated area. Ground and bond containers when transferring material, NFPA class IA storage. Flash point is fess than 73 degrees F and boiling point is less than 100 degrees F. Avoid breathing (dust, vapor, mist, gas). Avoid prolonged or repeated contact with skin. Avoid contact with eyes. Wash thoroughly after handling. Never siphon by mouth,

STORAGE

Keep away from heat, sparks, and flame. Keep container closed when not in use. Consult NFPA and I or OSHA codes for additional information.

Section 8 Exposure Controls and Personal Protection

Consult With a Health and Safety Professional for Specific Selections

- ENGINEERING CONTROLS
- Use with adequate ventilation. Use explosion-proof ventilation equipment.
- PERSONAL PROTECTION
 - EYE PROTECTION

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).



REGULAR UNLEADED GASOLINE

Section 8 Exposure Controls and Personal Protection (continued)

GLOVES or HAND PROTECTION

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Protective gloves are recommended to protect against contact with product. Polyethylene; Neoprene; Nitrite: Polyvinyl alcohol; Viton;

RESPIRATORY PROTECTION

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Half-mask air purifying respirator with organic vapor cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with organic vapor cartridges is acceptable for exposures to fifty (50) times the exposure limit. Exposure should not exceed the cartridge limit of 1000 ppm. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health) or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

- OTHER

Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required. The following materials are acceptable for use as protective clothing: Polyvinyl alcohol (PVA); Polyethylene: Neoprene; Nitrile: Viton: Polyurethane; Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Remove contaminated clothing and wash before reuse. For non-fire emergencies, positive pressure SCBA and structural firefighter's protective clothing will provide only limited protection.

Section 9 Physical /Chemical Properties

BOILING POINT		
ODDUR THRESHOLD Not Determined SPECIFIC GRAVITY 0.72 - 0.74 @ 80°F VAPOUR PRESSURE 760.00 MM HG @ 100°F VAPOUR DENSITY (air=1) 1.2 as Vapor EVAPORATION RATE (Water = 1); >1 BOILING POINT 13.0°C (55°F) FREEZING POINT Not determined pH Not determined COEFFICIENT OF WATER/OIL DISTRIBUTION Negligible		
ODDUR THRESHOLD Not Determined SPECIFIC GRAVITY 0.72 - 0.74 @ 80°F VAPOUR PRESSURE 760.00 MM HG @ 100°F VAPOUR DENSITY (air=1) 1.2 as Vapor EVAPORATION RATE (Water = 1); >1 BOILING POINT 13.0°C (55°F) FREEZING POINT Not determined pH Not determined COEFFICIENT OF WATER/OIL DISTRIBUTION Negligible	ODOUR AND APPEARANCE	Clear liquid with a strong hydrocarbon odor
VAPOUR PRESSURE 760.00 MM HG @ 100°F VAPOUR DENSITY (air=1) 1.2 as Vapor EVAPORATION RATE (Water = 1); >1 BOILING POINT 13.0°C (55°F) FREEZING POINT Not determined pH Not determined COEFFICIENT OF WATER/OIL DISTRIBUTION Negligible		
VAPOUR DENSITY (air=1) 1.2 as Vapor EVAPORATION RATE (Water = 1); >1 BOILING POINT 13.0°C (55°F) FRÉEZING POINT Not determined pH Not determined COEFFICIENT OF WATER/OIL DISTRIBUTION Negligible	SPECIFIC GRAVITY	0.72 - 0.74 @ 60°F
EVAPORATION RATE (Water = 1); >1 BOILING POINT 13.0°C (55°F) FRÉEZING POINT Not determined pH Not determined COEFFICIENT OF WATER/OIL DISTRIBUTION Negligible	VAPOUR PRESSURE	760.00 MM HG @ 100°F
EVAPORATION RATE (Water = 1); >1 BOILING POINT 13.0°C (55°F) FRÉEZING POINT Not determined pH Not determined COEFFICIENT OF WATER/OIL DISTRIBUTION Negligible	VAPOUR DENSITY (air=1)	1.2 as Vapor
PRÉEZING POINT	EVAPORATION RATE	(Water = 1); >1
DH	BOILING POINT	
COEFFICIENT OF WATERIOIL DISTRIBUTION Negligible	FRÉEZING POINT.	Not determined
		Not determined
	COEFFICIENT OF WATER/OIL DISTRIBUTION	Negligible
% VOLATILE	% VOLATILE	100 % by weight

Section 10 Stability and Reactivity Data

		- STORMAN
CHEMICAL STABILITY	Stable	
INCOMPATIBLE MATERIALS	. Avoid contact with strong oxidizers.	
CONDITIONS TO AVOID	. Avoid heat, sparks, and open flame	
CONDITIONS OF REACTIVITY	Stable under normal conditions.	
HAZARDOUS DECOMPOSITION PRODUCTS	Combustion may produce CO, CO2 and reactive hydrocarbons	

Section 11 Toxicological Information

POTENTIAL HEALTH EFFECTS

PRE-EXISTING MEDICAL CONDITIONS
 The following diseases or disorders may be aggravated by exposure to this product: Skin; Eye; Blood forming organs;
 Nervous system, Respiratory system: Lung (asthma-like conditions): Cardiovescular system,



REGULAR UNLEADED GASOLINE

Section 11 Toxicological Information (continued)

INHALATION

High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, parafysis and loss of consciousness and even death). Excessive exposure to mists or vapors generated by heat may cause irritation to eyes, nose, throat, lungs and respiratory tract. Repeated excessive exposures may cause blood disorders such as anemia and leukemia. Contains a material that has been related to cancer in humans.

LC50 (mg/l):

no data

LC50 (mg/m3):

no data

LC50 (ppm):

SKIN

Moderately irritating to the skin. Skin absorption of material may produce systemic toxicity. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Draize Skin Score:

Out of 8.0 4.8

LD50 (mg/kg): no data

Moderately imitating to the eyes.

Product may be harmful or fatal it swallowed. Pulmonary aspiration hazard. After ingestion, may enter lungs and produce damage. Irritating to mouth, throat, and stomach.

LD50 (g/kg):

no data

Section 12 Ecological Information

Keep out of sewers, drainage areas, and waterways. Report spills and releases under Federal and State regulations.

Section 13 Disposal Considerations

This substance, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however it could be hazardous if it is considered toxic, corresive, ignitable, or reactive according to Federal definitions.

Section 14 Transportation Information

SPECIAL SHIPPING INFORMATION. Ground lines and equipment used during transfer to reduce the possibility of static soaked-initiated fire or explosion 3. flammable liquid HAZARD GLASS. DOT SHIPPING NAME .. Gasoline UN 1203 DOT IDENTIFICATION NUMBER.... PACKING GROUP.....

Section 15 Regulatory Information

US FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and it's constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and or local reporting requirements. This product and/or it's constituents may also be subject to other federal, state, or local regulations. Consult the regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to navigable waters or adjoining shorelines sufficient to cause any visible sheen or deposit of a Judge or emulsion must be reported immediately to the National Resource Center (1-800-424-8802) or, if not practical, the U.S.



REGULAR UNLEADED GASOLINE

Section 15 Regulatory Information (continued)

Coast Guard with follow-up to the National Response Center as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTON 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g. SARA Section 304 as well as the Clean Water Act, if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

ACUTE HEALTH	CHRONIC HEALTH	FIRE	SUDDEN RELEASE OF PRESSURE	REACTIVE
¥	¥	X	pen	Notes

Regulatory List	Component	CAS No.
A recommendation of the second	404	
ACGIH - Occupational Exposure Limits - Carcinogens	BENZENE	71-43-2
ACGIH - Occupational Exposure Limits - Carcinogens	ETHYL BENZENE	100-41-4
ACGIH - Occupational Exposure Limits - Carcinogens	NAPHTHALENE	91-20-3
ACGIH - Occupational Exposure Limits - Carcinogens	TOLUENE	108-88-3
ACGIH - Occupational Exposure Limits - Carcinogens	XYLENE	1330-20-7
ACGIH - Occupational Exposure Limits - TWAs	BENZENE	71-43-2
ACGIH - Occupational Exposure Limits - TWAs	CUMENE	98-82-8
ACGIH - Occupational Exposure Limits - TWAs	CYCLOHEXANE	110-82-7
ACCINI - Occupational exposure Limits - 14475	ETHYL BENZENE	100-41-4
ACGIH - Occupational Exposure Limits - TWAs	N-HEXANE	110-54-3
ACGIH - Occupational Exposure Limits - TWAs	NAPHTHALENE	91-20-3
ACGIH - Occupational Exposure Limits - TWAs	TOLUENE	108-88-3
ACGIH - Occupational Exposure Limits - TWAs	XYLENE	1330-20-7
ACGIH - Occupational Exposure Limits - TWAs	BENZENE	71-43-2
ACGIH - Short Term Exposure Limits	ETHYL BENZENE	100-41-4
CGIH - Short Term Exposure Limits	LIGHT PETROLEUM	8006-61-9
CGIH - Short Term Exposure Limits	DISTILLATE	
	NAPHTHALENE	91-20-3
kCGIH - Short Term Exposure Limits	XYLENE	1330-20-7
CGIH - Short Term Exposure Limits	BENZENE	71-43-2
CGIH - Skin Absorption Designation	N-HEXANE	110-54-3
ACGIH - Skin Absorption Designation	NAPHTHALENE	91-20-3
ACGIH - Skin Absorption Designation	TOLUENE	108-88-3
ACGIH - Skin Absorption Designation		71-43-2
CAA (Clean Air Act) - HON Rule - Organic HAPs	BENZENE	98-82-8
CAA (Clean Air Act) - HON Rule - Organic HAPs	CUMENE ETING BENZENG	100-41-4
CAA (Clean Air Act) - HON Rule - Organic HAPs	ETHYL BENZENE	110-54-3
CAA (Clean Air Act) - HON Rule - Organic HAPs	N-HEXANE	91-20-3
CAA (Clean Air Act) - HON Rule - Organic HAPs	NAPHTHALENE	108-88-5
CAA (Clean Air Act) - HON Rule - Organic HAPs	TOLUENE	1330-20-7
CAA (Clean Air Act) - HON Rule - Organic HAPs	XYLENE	71-43-2
CAA (Clean Air Act) - HON Rule - SOGMI Chemicals	BENZENE	98-82-
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	CUMENE	110-82-
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	CYCLOHEXANE	100-41-4
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	ETHYL BENZENE	110-54-
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	N-HEXANE	91-20-
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	NAPHTHALENE	
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	TOLUENE	108-88-
CAA (Clean Air Act) - HON Rule - SOCMI Chemicals	XYLENE	1330-20-7



Material Safety Data Sheet

REGULAR UNLEADED GASOLINE

Section 15 Regulatory Information (continued)

Well Specimen B. Co. To G. G. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	
CAA - 1990 Hazardous Air Pollutants	
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CERCLA/SARA - Haz Substances and their RQs	
CERCLA/SARA - Haz Substances and their RQs	
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CWA (Clean Water Act) - Priority Pollutants	

BENZENE	71-43-2
CUMENE	98-82-8
ETHYL BENZENE	100-41-4
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
TOLUENE	108-88-3
XYLENE	1330-20-7
1.2.4-TRIMETHYLBENZENE	95-63-6
RENZENE	71-43-2
CUMENE	98-82-8
CYCLOHEXANE	110-82-7
	100-41-4
ETHYL BENZENE	8006-61-9
LIGHT PETROLEUM	8000-61-9
DISTILLATE	440 540
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
TOLUENE	108-88-3
BENZENE	71-43-2
BENZENE	71-43-2
CUMENE	98-82-8
CUMENE	98-82-8
CYCLOHEXANE	110-82-7
CYCLOHEXANE	110-82-7
ETHYL BENZENE	100-41-4
ETHYL BENZENE	100-41-4
N-HEXANE	110-54-3
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
NAPHTHALENE	91-20-3
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XYLENE	1330-20-7
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1,2,4-TRIMETHYLBENZENE	95-63-6
BENZENE	71-43-2
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CYCLOHEXANE	110-82-7
ETHYL BENZENE	100-41-4
N-HEXANE	110-54-3
NAPHTHALENE	91-20-3
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XYLENE	1330-20-7
RENZENE	71-43-2
CYCLOHEXANE	110-82-7
ETHYL BENZENE	100-41-4
NAPHTHALENE	91-20-3
	108-88-3
TOLUENE XYLENE	1330-20-7
BENZENE	71-43-2
FTHYL BENZENE	100-41-4
NAPHTHALENE	91-20-3
	108-88-3
TOLUENE	100-00-0

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Section 15 Regulatory Information (continued)

Section 15 Regul	latory Information (continued)		
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CWA (Clean Water Act) - Toxic Pollutants	TOLUENE	108-88-3	
IARC - Group 1 (carcinogenic to humans)	BENZENE	71-43-2	
IARC - Group 2B (Possibly carcinogenic to humans)	ETHYL BENZENE	100-41-4	
IARC - Group 2B (Possibly carcinogenic to humans)	LIGHT PETROLEUM	8006-61-9	
	DISTILLATE		
IARC - Group 2B (Possibly carcinogenic to humans)	NAPHTHALENE	91-20-3	
IARC - Group 3 (not classifiable)	TOLUENE	108-88-3	
IARC - Group 3 (not classifiable)	XYLENE	1330-20-7	
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Inventory - Canada - Domestic Substances List	BENZENE	71-43-2	
Inventory - Canada - Domestic Substances List	CUMENE	98-82-8	
Inventory - Canada - Domestic Substances List	CYCLOHEXANE	110-82-7	
Inventory - Canada - Domestic Substances List	ETHYL BENZENE	100-41-4	
Inventory - Canada - Domestic Substances List	LIGHT PETROLEUM	8006-61-9	
	DISTILLATE		
Inventory - Canada - Domestic Substances List	N-HEXANE	110-54-3	
Inventory - Canada - Domestic Substances List	NAPHTHALENE	91-20-3	
Inventory - Canada - Domestic Substances List	TOLUENE	108-88-3	
Inventory - Canada - Domestic Substances List	XYLENE	1330-20-7	
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Inventory - TSCA - Sect. 8(b) Inventory	BENZENE	71-43-2	
Inventory - TSCA - Sect. 8(b) Inventory	CUMENE	98-82-8	
/ Inventory - TSCA - Sect. 8(b) Inventory	CYCLOHEXANE	110-82-7	
inventory - TSCA - Sect. 8(b) Inventory	ETHYL BENZENE	100-41-4	
inventory - TSCA - Sect. 8(b) Inventory	LIGHT PETROLEUM	8006-61-9	
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Inventory - TSCA - Sect. 8(b) Inventory	N-HEXANE	110-54-3	
Inventory - TSCA - Sect. 8(b) Inventory	NAPHTHALENE	91-20-3	
inventory - TSCA - Sect. 8(b) Inventory	TOLUENE	108-88-3	
Inventory - TSCA - Sect. 8(b) Inventory	XYLENE	1330-20-7	
OSHA - Final PELs - Ceiling Limits	BENZENE	71-43-2	
OSHA - Final PELs - Ceiling Limits	TOLUENE	108-88-3	
OSHA - Final PELs - Skin Notations	CUMENE	98-82-8	
OSHA - Final PELs - Time Weighted Averages	BENZENE	71-43-2	
OSHA - Final PELs - Time Weighted Averages	CUMENÉ	98-82-8	
OSHA - Final PELs - Time Weighted Averages	CYCLOHEXANE	110-82-7	
OSHA - Final PELs - Time Weighted Averages	ETHYL BENZENE	100-41-4	
OSHA - Final PELs - Time Weighted Averages	N-HEXANE	110-54-3	
OSHA - Final PELs - Time Weighted Averages	NAPHTHALENE	91-20-3	
OSHA - Final PELs - Time Weignted Averages	TOLUENE	108-88-3	
OSHA - Final PELs - Time Weighted Averages	XYLENE	1330-20-7	
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OSHA - Select Carcinogens	BENZENE	71-43-2	
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Pennsylvania - RTK (Right to Know) List	BENZENE	71-43-2	
Pennsylvania - RTK (Right to Know) List	CUMENE	98-82-8	
Pennsylvania - RTK (Right to Know) List	CYCLOHEXANE	110-82-7	

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Section 15 Regulatory Information (continued)

Pennsylvania - RTK (Right to Know) List Pennsylvania - RTK - Special Hazardous Substances TSCA - Sect. 12(b) - Export Notification TSCA - Sect. 12(b) - Export Notification TSCA - Section 8(a) - PAIR Reporting List	THYL BENZENE N-HEXANE NAPHTHALENE TOLUENE XYLENE BENZENE GYCLOHEXANE N-HEXANE NAPHTHALENE	100-41-4 110-54-3 91-20-3 108-88-3 1330-20-7 71-43-2 110-82-7 110-54-3 91-20-3
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Section 16 Other Information

Precautionary labeling for pumps, portable containers, and drums is required. A "hazardous when empty" pictogram and D.O.T. flammable liquid label are also required for drums. Detaits available upon request. Because benzene is present in this product above 0.1%, the OSHA Standard for benzene is applicable to work locations upstream of final discharge from terminals. Consult 29CFR1910.1028 for detaits. Prolonged and repeated excessive exposures to benzene can result in blood disorders ranging from anemia to Jeukemia. Sun recommends that exposures to benzene be kept below 1.0 ppm for 8-hours; 5.0 ppm for 15-min. Normal service station operations are below these values. For use as motor fuel only. Do not use for any other purpose. Catecholamines and similar adrenergic drugs are generally contraindicated because of potential for increased sensitivity of the heart from hydrocarbon overexposure and subsequent ventricular fibrillation. EKG monitoring may be indicated and bronchodillators should be selected with core. Following injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss. COMPONENT TOXICITY: Overexposure to naphthalene, a minor component of this product, may cause skin, eye and respiratory tract irritation, anemia, loss of vision, nervous system effects and kidney and thymus damage. Also, exposure to naphthalene has produced "respiratory tract" tumors in laboratory

Preparation Date of Material Safety Data Sheet

DATE PREPARED	03/06/96
PEVISION DATE	08/20/04

DISCLAIMER: Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing here in is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained by using any material and since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of material supplied by us.

10/11/2004

MSDS

CALCIUM CHLORIDE-94%

PRODUCT INFORMATION

CHEMICAL NAME: Calcium Chloride

SYNONYM(S): High Test Fines, High Test Powder, High Test Beads,

CHEMICAL FAMILY: Inorganic salt

Product use: Calcium chloride is used to dehydrate natural gas with high sulfur content,

gas from remote or offshore wells, or from wells with low flow rates.

MOLECULAR FORMULA: cac12 SHIPPING NAME: Calcium Chloride PIN - UN NUMBER: Not controlled

WHMIS: D2B

MANUFACTURER: The Dow Chemical Company Ltd.

P.O box 1012 Sarnia, Ontario

N7T 7K7 DOW Emergency Number: 780-998-8282 (Ft Saskatchewan, Alberta)

519-339-3711 (Sarnia, Ontario) 450-652-1000 (Varennes, Quebec)

SUPPLIER: Panther Industries Inc.

Box 628 Davidson, Sask. SOG 1A0

EMERGENCY TELEPHONE NUMBER: (306) 567-2814

HAZARDOUS INGREDIENTS

C.A.S. REGISTRY NUMBER: WEIGHT % INGREDIENTS: 10043-52-4

94-97% Calcium Chloride

OTHER INGREDIENTS

C.A.S. REGISTRY NUMBER: WEIGHT% INGREDIENTS: 10476-85-4 Strontium Chloride

1-2% Sodium Chloride 07447-40-7 Potassium Chloride 07732-18-5 Water

PHYSICAL DATA

PHYSICAL STATE: Solid.

PH: data to indicate the product is basic

ODOUR AND APPEARANCE: Odourless white to off white pellets.

ODOUR THRESHOLD: Not applicable

VAPOUR PRESSURE: <0.005 mmHg, at 20 °C.

VAPOUR DENSITY: Not applicable

BOILING POINT: 1670°C

SOLUBILITY IN WATER: Very soluble MELTING POINT: Approx. 772 C, 1424 F

SPECIFIC GRAVITY: 2.2

FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY: Not applicable.

MEANS OF EXTINGUISHING: This material does not burn. If exposed to fire from another

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MSDS

CALCIUM CHLORIDE-94%

source, use suitable extinguishing agent for that fire.

FLASH POINT: Not applicable.

UPPER FLAMMABLE LIMIT: Not applicable.

LOWER FLAMMABLE LIMIT: Not applicable.

SPECIAL FIRE FIGHTING PROCEDURES: Keep people away. Isolate fire area and deny unnecessary entry. Firefighters should wear positive-pressure self-contained breathing apparatus (SCBA) and full protective fire fighting clothing (included fire fighting helmet, coat, pants, boots, and gloves.)

EXPLOSION HAZARDS: Hydrogen chloride is a hazardous combustion product at temperatures in excess of 1600 degrees Celsius.

REACTIVITY DATA

STABILITY: Stable. Hygroscopic.

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Does no decompose.

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY: Corrosive to some metals. Corrosive when wet. Flammable hydrogen may be generated from contact with metals such as zinc or sodium. Avoid contact with sulfuric acid. Heat is generated when mixed with water. Spattering or boiling can occur.

HEALTH HAZARD DATA

INHALATION: Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract. Calcium Chloride has an LDso of 1940 mg/kg oral mouse

SKIN CONTACT: Short single exposure not likely to cause significant skin irritation.

Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp or if material is confined to skin. May cause more severe response is skin is abraded (scratched or cut). When dissolving, the heat produced may cause more intense effects as well as thermal burns. Not classified as corrosive according to DOT. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

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

INGESTION: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

Toxicological data: Effects of chronic exposure: These effects are; Repeated exposure may cause irritation or even a burn to the skin, eyes and nasal cavity.

IRRITANCY: Slight.

MUTAGENICITY: Negative

SENSITIZATION TO PRODUCT: Not available.

REPRODUCTIVE TOXICITY: Not available.

ANIMAL TOXICITY DATA:

LD50 - 967-1668 mg/kg oral, rat. >5000 mg/kg skin, rabbits

FIRST AID PROCEDURES

INHALATION: Remove to fresh air if effects occur. Consult a physician.

EYE CONTACT: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN CONTACT: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Give 2-4 glasses of water or milk and don't induce vomiting unless directed to do so by medical personnel.

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MSDS

CALCIUM CHLORIDE-94%

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

PREVENTATIVE MEASURES

RESPIRATORY PROTECTION: In dusty atmospheres, use an approved dust respirator.

Atmospheric levels should be maintained below the exposure guideline.

EXPOSURE GUIDELINES: Calcium chloride: Dow IHG is 10 mg/m3

Sodium chloride: Dow IHG is 10 mg/m3 Potassium chloride: Dow IHG is 10 mg/m3

EYE AND FACE PROTECTION: Use safety glasses. For dusty operations or when handling solutions of the material, wear chemical goggles.

SKIN PROTECTION: When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water and launder clothing before reuse. If hands are cut or scratched, use gloves impervious to this material even for brief exposures.

STORAGE REQUIREMENTS: Keep containers tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

HANDLING: Heat developed during diluting or dissolving is very high. Use cool water when diluting or dissolving (temperature less than 80F, 27C)

ENVIRONMENTAL PROTECTION DATA

PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL: Contain spill. Shovel and sweep up spill and place in a suitable and properly labelled container. Flush residue with large amounts of water. Keep contaminated water from entering sewers and water courses.

WASTE DISPOSAL: All disposal methods must be in compliance with all Federal,

State/Provincial and local laws and regulations.

AQUATIC TOXICITY: Material is practically non-toxic to aquatic organisms on an acute bases (LC50/EC50 > 100 mg/L in most sensitive species).

PREPARATION INFORMATION

MSDS PREPARED BY: Technical Department

Panther Industries Inc.

Davidson, Sask. Ph. (306) 567-2814

DATE PREPARED/REVISED: Feb 17 2004

DATE PRINTED: Feb 17 2004

REFERENCES: 1. Patty's Industrial Hygiene and Toxicology 3rd Ed.1981 by

Clayton & Clayton John Wiley & Sons, New York. 2. Manufacturer's MSDS.

Calcium Chloride, Dihydra

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Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name

Calcium Chloride, Dihydrate

Manufacturer

EMD Chemicals Inc P.O. Box 70

480 Democrat Road

Gibbstown, NJ 08027 Gibbstown, NJ 08027 Frior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries,

For More Information Call 856-423-6300 Technical Service Monday-Friday: 8:00 AM - 5:00 PM

Material Uses Chemical Pamily

CALCIUM CHLORIDE Analytical reagent Inorganic salt.

In Case of Emergency Call 800-424-9300 CHEMTREC (USA)

Product Code

Effective Date

613-996-6666 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week

8/20/2004

Section 2. Composition and Information on Ingredients

CALCIUM CHLORIDE, DIHYDRATE

CAS# 10035-04-8

Weight 100

Section 3. Hazards Identification

Physical State and Appearance

Emergency Overview

Solid. (Powder or flakes solid. Granular solid.)

CAUTION!

CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Routes of Entry Al Potential Acute Health Effects

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Skin May be hazardous in case of skin contact (tritant). Skin inflammation is characterized by itching, scaling

reddening, or, occasionally, blistering.

Inhalation No known acute effects of this product resulting from inhalation. Ingestion Irritating to mouth, throat and stornach. Ingestion can cause nausea and vomiting

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans

Additional information See Toxicological Information (section 11) Repeated or prolonged exposure is not known to aggravate medical condition

Medical Conditions Aggravated by Overexposure:

Section 4. First Aid Measures

Eye Contuct

Check for and remove any contact lenses. In case of contact, manediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately. In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient, Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin Contact

Inhalation

Ingestion

oxygen. Get medical attention.

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to no NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to no nonscious person. If large quantities of this material are swallowed, call a physician immediately.

Loosen ught clothing such as a collar, tie, belt or waisthand.

Section 5. Fire Fighting Measures

Planmability of the Product May be combustible at high temperature Auto-ignition Temperature Not available.

http://www.emdchemicals.com/analytics/doc/msds/MSDSU_CX0134.htm

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Page 2 of 4 Calcium Chloride, Dihydra. Flash Points Not available

Flammable Limits Not available. These products are carbon oxides (CO, CO2), halogenated compounds. Some metallic oxides. Products of Combustion Fire Hazards in Presence of Not available. Various Substances

Risks of explosion of the product in presence of static discharge: No. Presence of Various Risks of explosion of the product in presence of mechanical impact: No. SMALL FIRE: Use DRY chemical powder. Substances Fire Fighting Media

and Instructions

Protective Clothing (Fire)

Special Remarks on Fire

Hazards Special Remarks on Explosion Hazards

Not available

Section 6. Accidental Release Measures

Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Use a shovel to put the material into a convenient waste disposal container.
No specific spill kit required for this product.

Large Spill and Leak Spill Kit Information

Section 7. Handling and Storage

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not ingest. Do not breathe dust.

Keep container tightly closed. Keep container in a cool, well-ventilated area. Storage

Section 8. Exposure Controls/Personal Protection

His process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fame or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. **Engineering Controls**

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when vertilation is insidentiate.

when ventilation is inadequate. Hands Gloves.

Feet Not applical

Protective Clothing (Pictograms)

Solubility



Personal Protection in Case Splash goggles. Full suit. Dust respirator. Boots, Gloves, A self-contained breathing apparatus should be of a Large Spill used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits

CALCRIM CHLORIDE, DIHYDRATE Not available

Section 9. Physical and Chemical Properties

Not available White.

Odor Color Solid. (Powder or flakes solid. Granular solid.) Physical State and

Appearance Molecular Weight 147/02 g/mote CaCl2 : 2H2O Not available Molecular Formula

Not available Boiling/Condensation Point Melting/Freezing Point Specific Gravity Not available Not available. Vapor Pressure Not available Not available. Vapor Density Odor Threshold Not available Not available. Evaporation Rate Soluble in water

http://www.emdchemicals.com/analytics/doc/msds/MSDSU CX0134.htm

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Calcium Chloride, Dihydra. Page 3 of 4 Section 10. Stability and Reactivity The product is stable. Stability and Reactivity Conditions of Instability Not available. Reactive with meals, moisture. Incompatibility with Various Substances Rem/Incompatibility Not available.

Hazardous Decomposition These products are halogenated compounds. Products
Hazardous Polymerization Will not occur. Section 11. Toxicological Information RTECS Number: EV9810000 Calcium Chloride, Dihydrate LD50: Not available. Toxicity LC50: Not available. Chronic Effects on Humans Not available. Acute Effects on Humans

Acute Effects on Humans

Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Not available. Synergetic Products (Toxicologically) Draize Test: Not available. Irritancy Sensitization Not available. This material is not known to cause cancer in animals or humans. Not available. Carcinogenic Effects Toxicity to Reproductive System Teratogenic Effects Mutagenic Effects Not available. Tests on laboratory animals for mutagenic effects are cited in Registry of Toxic Effects of Chemical Substances (RTECS). Section 12. Ecological Information Ecotoxicity Not available
BOD5 and COD Not available Not available. Toxicity of the Products of The products of degradation are more toxic dran the product itself. Biodegradation Section 13. Disposal Considerations EPA Waste Number Not available.

Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations. Section 14. Transport Information Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not applicable Not available Proper Shipping Name: CHEMICALS, N.O.S. RQ: Not available. TDG Classification IMO/IMDG RQ: Not applicable. Classification Not available. ICAO/IATA +Section 15. Regulatory Information ulatory Information
TSCA 8(b) inventory: Calcium Chloride, Dibydrate
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/31/31/312 hazardous chemicals: Calcium Chloride, Dibydrate
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Calcium Chloride,
Dibydrate: Immediate (Acute) Health Hazard
SARA 313 toxic chemical notification and release reporting; No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean water (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. http://www.emdchemicals.com/analytics/doc/msds/MSDSU CX0134.htm 11/2/2004

Material Safety Data / Fiche signalétique WESTCOAST DRILLING SUPPLIES LID EMERGENCY 1-800-665-664 soes giver Way, Delta, British Columbia. Carseda VAG 1LB PD. (604) 940-6050 Fax (604) 940-9080 550X® POLYMER Page 2 of 4 SECTION V: PHYSICAL DATA White granular solid APPEARANCE None ODOR 0,8 at 25° C (77 F) SPECIFIC GRAVITY Not applicable Not determined BOILING POINT (°C) MELTING POINT (°C) SOLUBILITY IN WATER PERCENT VOLATILE BY VOLUME Forms a gel Not determined Not determined **BVAPORATION RATE** VAPOR PRESSURE (mm Hg) VAPOR DENSITY (Air-I) Not determined Not determined . 4-9@5g/L pH SECTION VI: FIRE AND EXPLOSION HAZARD DATA 93° C (200 F) FLASH POINT Not determined FLAMMABLE LIMITS Dry Chemical, Carbon Dioxide EXTINGUISHING MEDIA SPECIAL FIRE FIGHTING PROCEDURES Aqueous solutions or powders that become wet render surfaces extremely slippory. No special equipment required. UNUSUAL FIRE AND EXPLOSION HAZARDS SECTION VII: REACTIVITY DATA . [XXX] Stable [] Unstable STABILITY INCOMPATIBILITY (Conditions to svoid) Oxidizing agents CONDITIONS OF REACTIVITY Not known NOx COx HAZARDOUS DECOMPOSTION PRODUCTS [XXX] Will not occur [] May occur HAZARDOUS POLYMERIZATION WESTCOAST DESLLING SUPPLIES LTP.

Material Safety Data / Fiche signalétique

WESTCOAST DRILLING SUPPLIES LTD. 8069 River Way, Delta, British Columbia, Canada V4G 1L3 Ph. 1604) 940-6050 Fax (604) 940-6080

EMERGENCY 1-800-685-6845

550X® POLYMER

Page 3 of 4

VENTILATION

SECTION VIII: PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

Dust masks are recommended where concentration of total

dust is more than 10 mg/m General mechanical Chemically resistant

PROTECTIVE GLOVES EYE PROTECTION OTHER PROTECTIVE EQUIPMENT (Specify)

Safety glasses with side shields

Not known

· ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Do not flush with water. Clean up promptly by sweeping or vacuum Keep in suitable and closed containers for disposal. After cleaning, flush away trace with water.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

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

WASTE DISPOSAL METHOD

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

SECTION IX: TOXICOLOGICAL INFORMATION

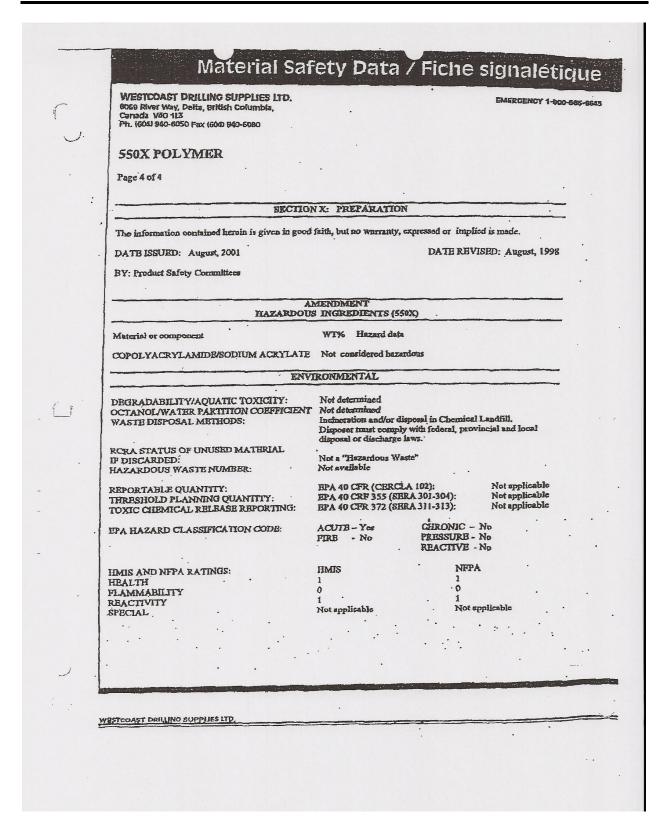
CARCINOGENICITY REPRODUCTIVE TOXICITY TERATOGENICITY MUTAGENICITY

Not determined Not determined Not determined Not determined Not determined

DEVELOPMENTAL TOXICITY CHRONIC BFFBCTS:

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

WESTCOAST DRILLING SUPPLIES LTD.



MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY: Diversity Technologies Corp. DATE: Dec. 19, 2005

8750 – 53rd Ave. PHONE: 604-940-6050

Edmonton, AB T6E 5G2 FAX: 604-940-6080

PRODUCT NAME: LINSEED SOAP

PRODUCT USE: Lubricant.

CHEMICAL FAMILY: Mixture CAS#: Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION: Not WHMIS controlled.

WORKPLACE HAZARD: Not applicable

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME: Not regulated under TDG

TDG CLASSIFICATION: Not applicable UN NUMBER (PIN): Not applicable PACKING GROUP: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u> <u>PERCENT</u> <u>CAS NUMBER</u> <u>LD₅₀Oral-Rat</u> <u>LC₅₀Inhal-Mouse</u> <u>ACGIH-TLV</u>

Contains no WHMIS controlled ingredients.

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY: [XX] EYE CONTACT [] SKIN [] INHALATION [] INGESTION

EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation. INGESTION: Not considered toxic.

INHALATION: Not a likely source of contact during normal use.

CARCINOGENICITY: No information available. TERATOGENICITY: No information available. REPRODUCTIVE No information available.

TOXICITY:

MUTAGENICITY: No information available.

Linseed Soap Page 2 of 3

SYNERGISTIC PRODUCTS:

No information available.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Wipe away excess. Wash thoroughly with soap and water. Launder

contaminated clothing before re-use. If irritation persists, obtain

medical attention.

EYE CONTACT: Immediately flush with gently flowing warm water until material is

removed and irritation ceases. If irritation persists, obtain medical

attention.

INGESTION: If conscious give 1 to 2 glasses of water and induce vomiting; keep

head below hips to prevent aspiration of vomitus. Obtain medical attention. Never give anything by mouth to an unconscious or

convulsing victim.

INHALATION: Move to fresh air. Apply oxygen or artificial respiration if required.

If breathing difficulties, or distress, continue obtain medical attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR: Brown paste; slight odour

SPECIFIC GRAVITY: Not applicable

BOILING POINT (°C): 100

MELTING POINT (°C): 0
SOLUBILITY IN WATER: Solu

SOLUBILITY IN WATER: Soluble pH: 9.5 – 11.0

PERCENT VOLATILE BY VOLUME:
EVAPORATION RATE:
VAPOUR PRESSURE (mmHg):
VAPOUR DENSITY (air = 1):

BULK DENSITY
Not applicable
Not applicable
Not applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not flammable FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Use media suitable for packaging and surrounding

materials.

SPECIAL FIRE FIGHTING Self-contained breathing apparatus required for fire

PROCEDURES: fighting personnel. UNUSUAL FIRE AND None known.

EXPLOSION HAZARDS:

Linseed Soap Page 3 of 3

SECTION VII: REACTIVITY DATA

STABILITY: STABLE [XX] UNSTABLE [

INCOMPATIBILITY None known.

(CONDITIONS TO AVOID):
CONDITIONS OF REACTIVITY:
None known.

HAZARDOUS DECOMPOSITION Not determined. PRODUCTS:

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not applicable.
VENTILATION: Not applicable.
PROTECTIVE GLOVES: Personal preference.

EYE PROTECTION: Safety glasses with side-shields recommended.

OTHER PROTECTIVE EQUIPMENT (Specify): Safety glasses with side-shields recommended. Wear clothing adequate to protect against exposure. Ensure eye-wash station and emergency shower are

available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Wash thoroughly after handling. Avoid contact with eyes, skin or clothing. No specific storage requirements.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment. Scoop up excess material. Collect uncontaminated material for repackaging. Collect contaminated material in approved containers for disposal. Wipe up remaining spill with absorbent compound to prevent slipping hazard.

WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial and local regulations. This material can be land filled in most areas; check with local operator. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED: December 19, 2005 BY: Product safety committee

SUPERSEDES: March 31, 2003 PHONE: 780-440-4923

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY:

Diversity Technologies Corp.

DATE:

Jan. 3, 2006

8750 - 53rd Ave.

PHONE:

604-940-6050

Edmonton, AB T6E 5G2

FAX:

604-940-6080

PRODUCT NAME:

DR-133 POLYMER

PRODUCT USE:

Drilling mud additive.

Anionic polyacrylamides in oil-water CHEMICAL FAMILY:

CAS#:

Mixture

emulsion

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION:

B3; D2B

WORKPLACE HAZARD:

Combustible liquid; skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME:

TDG CLASSIFICATION:

Not regulated under TDG Not applicable

UN NUMBER (PIN): PACKING GROUP:

Not applicable Not applicable

INGREDIENT % (v/v) Mineral spirits Alkylphenol ethoxylate 0.5-1.5 Ethoxylated C₁₂₋₁₅ alcohol

CAS NUMBER 68412-54-4 68131-39-5

LD₅₀Oral-Rat >5000 mg/kg 3000 mg/kg >3200 mg/kg

LC50Inhal-Rat Not available Not available Not available

ACGIH-TLV Not established Not established Not established

SECTION III: HEALTH HAZARDS

SECTION II: HAZARDOUS INGREDIENTS

ROUTE OF ENTRY: EYE CONTACT:

SKIN CONTACT:

[XX]EYE CONTACT [XX]SKIN []INHALATION [XX]INGESTION Severe irritant. Can cause redness, tissue destruction, and irritation. Irritant. Low acute dermal toxicity. Can cause redness, inflammation

and irritation on prolonged contact.

INGESTION:

Low acute oral toxicity. May cause nausea, diarrhea and abdominal

cramps.

INHALATION:

Not a likely source of exposure.

DR-133 Polymer Page 2 of 4

CARCINOGENICITY: No information available. TERATOGENICITY: No information available. REPRODUCTIVE No information available. TOXICITY: MUTAGENICITY: No information available. **SYNERGISTIC** No information available. PRODUCTS:

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Wash thoroughly with soap and water. If irritation develops or persists, obtain medical attention. Wash contaminated clothing prior to re-use.

EYE CONTACT: Flush with gently flowing warm water for 15 minutes or until irritation subsides. Obtain medical attention when flushing period is complete.

INGESTION: Do not induce vomiting. Give 1-2 glasses of water. Obtain immediate

> medical attention. Do not give anything by mouth if patient is unconscious, rapidly losing consciousness or convulsing.

Move to fresh air. Apply oxygen or artificial respiration as required. If INHALATION:

breathing difficulties or distress continues obtain medical attention.

SECTION V: PHYSICAL DATA

Liquid emulsion; petroleum odour APPEARANCE AND ODOUR:

SPECIFIC GRAVITY: Not available Not available BOILING POINT (°C): Not available MELTING POINT (°C):

SOLUBILITY IN WATER: Forms gel pH: 7-9 (@ 0.6%)

PERCENT VOLATILE BY VOLUME: Not available Not available **EVAPORATION RATE:** Not available VAPOUR PRESSURE (mmHg): Not available VAPOUR DENSITY (air = 1): **BULK DENSITY:** Not applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 65°C (TCC) Not applicable FLAMMABLE LIMITS:

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam, in preference to

a water spray.

Self contained breathing apparatus required for fire SPECIAL FIRE FIGHTING fighting personnel. Move containers from fire area,

PROCEDURES:

or cool with water spray, if possible.

DR-133 Polymer

Page 3 of 4

UNUSUAL FIRE AND **EXPLOSION HAZARDS:** Vapours may travel to ignition source and flash back.

SECTION VII: REACTIVITY DATA

STABILITY:

STABLE [XX]

UNSTABLE []

INCOMPATIBILITY

Avoid contact with strong oxidizers and strong

(CONDITIONS TO AVOID):

reducing agents. Avoid ignition sources.

HAZARDOUS DECOMPOSITION

Oxides of carbon and nitrogen upon combustion

PRODUCTS:

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Use approved respirators with organic vapour

cartridges if TLV is exceeded.

VENTILATION:

Use in well-ventilated area, or use local exhaust ventilation, process enclosure or other engineering

controls to maintain vapour/mist level below TLV.

PROTECTIVE GLOVES:

Neoprene or viton recommended. Wear chemical goggles when handling.

EYE PROTECTION: OTHER PROTECTIVE EQUIPMENT

As necessary to prevent contact. Ensure eyewash

station and emergency shower are available.

(Specify):

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid all contact with material. Remove contaminated clothing; launder or dry-clean before reuse. Cleanse skin thoroughly after contact, before breaks and meals and at end of work period. Product is readily removed from skin by washing thoroughly with soap and water. Store in a cool, dry location away from incompatibles. Store in original container. Empty packages contain residual hazardous material; handle and store as if full.

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment. Eliminate ignition sources. Stop leak if possible to do so without risk. Dike spill to prevent spread. Use vacuum to pick up large spills. Soak up residual and small spills with absorbent materials. Collect uncontaminated material for repackaging. Collect contaminated material and absorbents in appropriate container for disposal.

DR-133 Polymer

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WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED:

January 3, 2006

BY:

Product safety committee

SUPERSEDES: March 31, 2003

PHONE:

780-440-4923



BIO TECHNICS LIMITED

Upper Mill, Inverbervie, Aberdeenshire, Scotland UK DD10 0SP Telephone +44 (0) 1561 361515 Fax +44 (0) 1561 361011 Email info@biotechnics.co.uk www.simplybio.com

MATERIAL SAFETY DATA SHEET **PRODUCT**

OT8

1. DESCRIPTION / PROPERTIES (nature, reactivity):

A unique biological cleaner designed to remove residues of oils, greases and other hydrocarbon products by enhanced bacterial degradation. Aqueous suspension of selected natural bacteria, nutrients and cleaning agents. Cleans off hydrocarbon residues by bacterial oxidation to carbon dioxide and water, with no adverse environmental impact or harmful residues. Application rate is approximately 0.5 - 2.5 square metres per litre depending on surface porosity.

2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	WEL
Orange terpene	8028-48-6	232-433-8	10 → 30%	Xn	R10,38,65,52/53	-
Dipropylene glycol mono methyl ether	34590-94-8	252-104-2	0 → 5%	-		WEL
Isopropylamine dodecyl benzene sulphonate	26264-05-1	247-556-2	5 → 10%	X _i	R41, 38	-
Alcohol ethoxylate	*	*	0 → 5%	X _n	R22, 41	-

^{*} Proprietary status pending

3. HAZARD INDENTIFICATION

- a) Fire/Explosion Hazard (stability, flammability, combustion products): Product is not classified as combustible or flammable.
- b) Health Hazard (inhalation, ingestion, contact with skin or eyes): Irritating to skin and eyes. Avoid contact with skin and in particular, with the eyes. Low risk from inhalation but avoid excessive inhalation of vapour e.g. on heating etc. Low order of acute oral toxicity but do not ingest.
- c) Environmental Hazard: Not classified as hazardous to the environment.

4. FIRST AID MEASURES

INHALATION

- Low risk in normal usage. Remove to fresh air. Rest and keep warm. If symptoms of distress persist seek medical attention.

SKIN CONTACT -

Wash affected area thoroughly with clean water. Remove contaminated clothing and launder before re-use.

INGESTION

EYE CONTACT - Irrigate with plenty of clean water. Obtain medical advice.

- Do not swallow, wash out mouth with water. If swallowed drink water and obtain medical attention. Do not induce vomiting.

OT-8

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

If involved in a fire, use extinguishing media appropriate to the source of the fire.

Protection for fire fighters:

Wear self-contained breathing apparatus. Wear protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Mark out contaminated area with signs and prevent access to unauthorised personnel.

Environmental Precautions:

Prevent discharge of large quantities to drain or water courses.

Clean up Procedures:

Disperse small spillages with large excess of water. Large spillages - contain, absorb and pick up, place in sealed containers for disposal via licensed contractor. Wash down traces with excess of water.

7. HANDLING AND STORAGE

Handling:

After handling wash hands and face with soap and water.

May be stored for periods over six months in plastic containers as supplied. Avoid temperatures above 45 °C and protect from frost.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

WEL (2-methoxymethylethoxy)propanol 8hr TWA 50ppm / 308mg/m³ (EH40 2005)

Under normal conditions of use this limit is unlikely to be exceeded.

Engineering Controls: Provide eyewash station. Ensure good natural ventilation.

Personal Protection: Hand: Use protective gloves made of neoprene or nitrile.

Eyes: Wear safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

 $\begin{array}{lll} \mbox{Density at } 20\mbox{°C} & : & 0.95-0.97 \\ \mbox{Vapour Pressure at } 20\mbox{°C} & : & \mbox{Essentially Water Vapour} \end{array}$

Solubility in Water : Disperses pH : 6.0 - 7.5 pH : Flash Point : N/A

10. STABILITY AND REACTIVITY

Stability: Stable.

Materials to avoid: No known adverse reactions.

Hazardous decomposition products: No typical hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Health Effects:

Respiratory: Not likely to occur.

Irritating to skin on prolonged or repeated skin contact. Skin:

Eyes: Irritating to eyes.

Low acute toxicity. May cause irritation to mucous membranes in mouth, throat, Ingestion:

stomach and intestinal canal.

Date: 09.08.05 File: A42-822 Rev: 0 Page 2 of 3

OT-8

Toxicological Data:

For individual components:

Component	Acute Toxicity
Dipropylene glycol mono methyl ether	LD50 oral (rat): 5000mg/kg
Orange terpenes	LD50 oral (rat): 4400mg/kg
Isopropylamine dodecyl benzene sulphonate	LD50 oral (rat): >2000mg/kg
Alcohol ethoxylate	Oral: 200< LD50<2000mg./kg
	Dermal: LD50>2000mg/kg
	Inhalation: LC50>5mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:

For individual components:

Component	Acute Toxicity
Orange terpenes	EC50 Daphnia magna 48h 12.3mg/L
Alcohol ethoxylate	Fish: 1< LC50<10mg./L
	Daphnia: 1< LC50<10mg./L
	Algae: 1< LC50<10mg./L

Degradability:

All components are readily biodegradable.

Bioaccumulation:

No bioaccumulation is expected. The product is biodegradable and water-soluble.

13. DISPOSAL CONSIDERATION

Disperse small spillages with large excess of water. Return unwanted material to the supplier.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport.

15. REGULATORY INFORMATION

Irritant X_i

R36/38 Irritating to skin and eyes.

S02 Keep out of the reach of children.

S26 In case of contact with the eyes rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

Regulatory Information:

UK Regulatory References: The Chemicals (Hazard Information and Packaging for Supply) Regulations

2002.

EH40/2005 Workplace Exposure Limits 2005.
EC Directives: Dangerous Preparations Directive (1999/45/EC

Dangerous Preparations Directive (1999/45/EC). Safety Data Sheets Directive (2001/58/EC).

Approved Code of Practice: The Compilation of Safety Data Sheets.

16. OTHER INFORMATION

PLEASE NOTE:

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith, no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.

Date: 09.08.05 File: A42-822 Rev: 0 Page 3 of 3

MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

COMPANY:

Diversity Technologies Corp.

DATE:

Jan. 18, 2006

8750 - 53rd Ave.

PHONE:

604-940-6050

Edmonton, AB T6E 5G2

FAX:

604-940-6080

PRODUCT NAME:

W-OB POLYMER

PRODUCT USE:

Drilling mud additive

CHEMICAL FAMILY: Polysaccharide suspension CAS#:

Mixture

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)

WHMIS CLASSIFICATION:

D₂B

WORKPLACE HAZARD:

Skin and eye irritant

TRANSPORTATION OF DANGEROUS GOODS (TDG)

PROPER SHIPPING NAME:

Not regulated Not applicable

TDG CLASSIFICATION: UN NUMBER (PIN):

Not applicable

PACKING GROUP:

Not applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT Ethoxylated nonylphenol % (v/v)

CAS NUMBER 9016-45-9

LD₅₀Oral-Rat 5100 mg/kg

LC50Inhal-Rat Not determined ACGIH-TLV Not available

SECTION III: HEALTH HAZARDS

ROUTE OF ENTRY:

[XX] EYE CONTACT [XX] SKIN [XX] INHALATION [XX]

INGESTION

EYE CONTACT:

Irritant. Can cause redness, tearing and inflammation.

SKIN CONTACT:

Irritant. Can cause redness, irritation and inflammation.

INGESTION: INHALATION:

Low oral toxicity. May cause nausea, abdominal cramps and diarrhea. High concentrations of vapour and mist can cause irritation of the nose

and throat

CARCINOGENICITY:

No information available.

TERATOGENICITY:

No information available.

Page 2 of 4 W-OB Polymer

REPRODUCTIVE

No information available. TOXICITY: No information available. MUTAGENICITY: SYNERGISTIC No information available. PRODUCTS:

SECTION IV: FIRST AID MEASURES

Remove contaminated clothing. Flush affected area with water and SKIN CONTACT:

soap for 5 minutes. If irritation persists, contact a physician.

Immediately flush with gently flowing warm water for 15, or until EYE CONTACT:

irritation ceases. When flushing period is completed, obtain medical

attention.

INGESTION: Rinse mouth and give 2 - 3 glasses of water to dilute. Do not induce

vomiting. If vomiting occurs keep head below hips to prevent aspiration. Even small amounts of liquid drawn into the lungs from swallowing, or vomiting may cause severe health effects. Obtain medical attention. Never give anything by mouth if patient is

unconscious, rapidly losing consciousness or convulsing.

Move patient to fresh air. Apply oxygen or artificial respiration if INHALATION:

required. If breathing difficulties or distress continues obtain medical

attention.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:

Opaque yellow to beige liquid; little odour

1.078 SPECIFIC GRAVITY:

Not determined BOILING POINT (°C): Not determined MELTING POINT (°C):

pH: Not determined Dispersible SOLUBILITY IN WATER:

PERCENT VOLATILE BY VOLUME: Not determined **EVAPORATION RATE:** Not determined VAPOUR PRESSURE (mmHg): Not determined VAPOUR DENSITY (air = 1): Not determined Not applicable **BULK DENSITY:**

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

Not flammable FLASH POINT: FLAMMABLE LIMITS: Not determined CO₂, water, mist, foam **EXTINGUISHING MEDIA:**

W-OB Polymer

Page 3 of 4

SPECIAL FIRE FIGHTING PROCEDURES: UNUSUAL FIRE AND **EXPLOSION HAZARDS:**

Self-contained breathing apparatus required for fire

fighting personnel. None known.

SECTION VII: REACTIVITY DATA

STABILITY:

STABLE [XX] Strong oxidizers and acids. UNSTABLE []

INCOMPATIBILITY (CONDITIONS TO AVOID):

CONDITIONS OF REACTIVITY:

Not applicable.

HAZARDOUS DECOMPOSITION

Oxides of carbon on combustion.

PRODUCTS:

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR [XX] MAY OCCUR []

SECTION VIII: PREVENTATIVE MEASURES

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

An approved respirator with organic vapour cartridge

if TLV is exceeded.

VENTILATION:

Use local exhaust ventilation, process enclosure or other engineering control to prevent exposure.

PROTECTIVE GLOVES:

Rubber or viton gloves recommended.

EYE PROTECTION:

Chemical goggles and/or face shield required. Do

not wear contact lenses.

OTHER PROTECTIVE EQUIPMENT

(Specify):

It is recommended that chemical resistant protective clothing be worn at all times when handling this

product. Make eye bath and emergency shower

available.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Avoid inhalation of vapours or mists. Wear suitable protection for eyes and skin when handling. Launder contaminated clothing before reuse. Avoid contact with incompatible materials. Store in cool, well-ventilated area away from sources of ignition. Keep container tightly closed when not in use. Store unused material in original container. Handle and store empty containers as if full.

W-OB Polymer

Page 4 of 4

STEPS TO BE TAKEN IN CASE THE MATERIAL IS SPILLED OR RELEASED

Use appropriate safety equipment including respiratory protection. Eliminate ignition sources. Ventilate area. Stop leak if possible to do so without risk. Soak up small spills with absorbent material. Contain large spills using absorbent materials. Collect spilled material and absorbents in approved containers for disposal. Prevent entry into bodies of water or sewer systems.

WASTE DISPOSAL METHOD

Dispose in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine at the time of disposal whether the product meets criteria for hazardous waste. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be disposed of, or recycled, according to local regulations.

SECTION IX: PREPARATION

THE INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.

DATE ISSUED:

January 18, 2006

BY:

Product safety committee

SUPERSEDES:

March 31, 2003

PHONE:

780-440-4923