







WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing (Pictograms)	TDG (Pictograms)
 	<b>B:</b> Flammable and Combustible Material <b>D2:</b> Poisonous and Infectious Material	  	 UN 1267

Section 1. Hazardous Ingredients				
Name	CAS #	% (W/W)	TLV-TWA (8 Hr)	Ceiling
Crude Oil	8002-05-9	100	5 mg/m <sup>3</sup>	Not available
Benzene	71-43-2	0-2	0.5 ppm	5 ppm
Hydrogen Sulphide	7783-06-4	<1	10 ppm	15 ppm
<b>LD50 (species and route)</b>	Testing not conducted on this product.			
<b>LC50 (species and route)</b>	Testing not conducted on this product.			

Section 2. Preparation Information	
<b>Created By:</b>	Intergroup Companies (403) 253-9138
<b>Issue Date:</b>	April 14, 2005
<b>Supersedes:</b>	"December 10, 2002"

Section 3. Product Information			
<b>Product Name</b>	<b>PETROLEUM CRUDE OIL (SWEET)</b>	<b>In case of emergency</b>	<b>PrimeWest Energy Inc. 24 Hr. Emergency #:</b> <b>1-888-234-6866</b> <b>CANUTEC:</b> 1-613-996-6666 <b>Poison Control Centre:</b> Consult local telephone directory for emergency number(s)
<b>Synonym</b>	Crude Oil, Sweet Crude Oil, Rock Oil, Seneca Oil, Process Stream, Condensate, S-041, CE2, AA3, 1037		
<b>Manufacturer</b>	PrimeWest Energy Inc. 4700, 150 – 6 Avenue S.W. Calgary, Alberta T2P 3Y7		
<b>Product Use</b>	Raw Product		

Section 4. Physical Data			
<b>Physical State</b>	Liquid	<b>Viscosity</b>	31-9000 SUS @ 20°C (varies)
<b>Colour</b>	Brown to black	<b>Specific Gravity</b>	0.74-1.03
<b>Odour</b>	Petroleum odour	<b>pH</b>	Not available
<b>Odour Threshold</b>	Not available	<b>Oil/Water Dist. Coefficient</b>	Not available
<b>Boiling Point</b>	-17.8°C to 537.8°C (0.0-1000.0°F)	<b>Freezing Point</b>	-60°C to -20°C, (-76°F to -4°F)
<b>Vapour Density</b>	>1.0	<b>Vapour Pressure</b>	>0.36 kPa @ 20°C

Section 5. Fire or Explosion Hazard			
<b>Flammability</b>	Extremely flammable liquid and vapour. Vapour may cause flash fire.	<b>Auto-Ignition Temperature</b>	Not available
<b>Upper Flammable Limit</b>	Not available	<b>Lower Flammability Limit</b>	Not available
<b>Explosion Data - sensitivity to mechanical impact</b>	Not available	<b>Explosion Data - sensitivity to static discharge</b>	Not available
<b>Flash Point and method of determination</b>	-42.8°C to 100°C, (-45.0°F to 212°F)		
<b>Products of Combustion</b>	Hydrocarbons, Hydrogen Sulphide, oxides of Carbon, oxides of Sulphur.		
<b>Fire Fighting Media and Instructions</b>	Regular dry chemical, Carbon Dioxide, water, regular foam. Large fires: Use regular foam or flood with fine water spray. Fire fighting: Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. For fires in cargo or storage area: Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. If this is impossible then take the following precautions: Keep unnecessary people away, isolate hazard area and deny entry. Let the fire burn. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck: Evacuation radius: 800 metres (1/2 mile). Water may be ineffective. Water or foam may cause frothing. Firefighters should wear full bunker gear, including a positive pressure self contained breathing apparatus.		

Section 6. Reactivity Data			
<b>Circumstances of Instability</b>	Stable at normal temperatures and pressure.	<b>Decomposition Products</b>	Hydrocarbons, Hydrogen Sulphide, oxides of Carbon, oxides of Sulphur
<b>Conditions of Reactivity</b>	Stable at normal temperatures and pressure.		
<b>Incompatible Substances/Conditions to Avoid</b>	Halogens, oxidizing materials, avoid heat, flames, sparks, and other sources of ignition. Containers may rupture or explode if exposed to heat. Keep out of water supplies and sewers. Dangerous gases may accumulate in confined spaces.		

Section 7. Toxicological Properties	
<b>Routes of Entry</b>	Skin, eye, inhalation, and oral
<b>Effects of Acute Exposure</b>	
Dermal	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Can cause blood disorders. Possible cancer hazard based on skin painting studies in laboratory animals.
Inhalation	Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness, and nausea, and may lead to unconsciousness or death. Can cause respiratory irritation. Cancer hazard. Can cause blood disorders. Vapours containing Hydrogen Sulphide may accumulate during storage or transport. Harmful or fatal if inhaled.
Oral	Harmful or fatal if liquid is aspirated into lungs. Ingestion causes gastrointestinal irritation and diarrhea.
Eye Irritation/Inflammation	No significant health hazards identified.
<b>Effects of Chronic Exposure</b>	
Dermal	Repeated or prolonged contact may result in defatting, oil acne, redness, itching, inflammation, cracking, and possible secondary infections.
Inhalation	Harmful or fatal if liquid is aspirated into lungs. Ingestion causes gastrointestinal irritation and diarrhea.
Oral	No known effects of long term exposure.
Eye Irritation/Inflammation	No known effects of long term exposure.

<b>Section 7. Toxicological Properties (Continued)</b>	
<b>Irritancy of Product</b>	
Dermal	Irritant
Inhalation	Irritant
Oral	Non irritant
Eye Irritation/Inflammation	Irritant
<b>Sensitization of Product</b>	
Dermal	Not a known sensitizer.
Inhalation	Not a known sensitizer.
Oral	Not a known sensitizer.
Eye Irritation/Inflammation	Not a known sensitizer.
<b>Exposure Limits</b>	
Immunotoxicity	No specific information is available regarding this product
Skin Sensitization	No specific information is available regarding this product
Respiratory Tract Sensitization	No specific information is available regarding this product
Mutagenic	While most compounds of this product are not reported to be positive for mutagenicity, Benzene has been found to have mutagenic effects in exposed workers.
Reproductive Toxicity	An increase in menstrual disorders has been reported in women exposed to organic solvents such as Benzene.
Teratogenicity/Embryotoxicity	There is evidence that Benzene crosses the placenta when the mother is exposed, but there is no conclusive evidence that it affects the fetus.
Carcinogenicity (ACGIH)	The American Conference of Governmental Industrial Hygienists (ACGIH) has determined that Benzene is carcinogenic to humans.

<b>Section 8. Preventative Measures</b>	
<b>Engineering Controls</b>	Control airborne concentrations below the exposure guidelines.
<b>Personal Protection</b>	<b>- This selection of personal protective equipment varies, depending upon conditions of use.</b>
<b>Eyes</b>	Chemical safety goggles suitable for splash protection and/or a face shield.
<b>Body</b>	Fire-resistant long-sleeved clothing and trousers worn outside of boots.
<b>Respiratory</b>	Use with adequate ventilation. Avoid breathing vapour and/or mist. If ventilation is inadequate, use respirator that will protect against organic vapour and dust/mist.
<b>Hands</b>	Chemical resistant gloves.
<b>Feet</b>	Chemical resistant boots.
<b>Accidental Release Measures</b>	
<b>Material Release or Spill</b>	Avoid heat, flames, sparks, and other sources of ignition. Stop leak if possible without personal risk. Reduce vapours with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Large spills: Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.
<b>Disposal Considerations</b>	
<b>Waste Disposal</b>	Waste must be disposed of in accordance with federal, provincial, and local environmental control regulations.

<b>Handling and Storage</b>	
<b>Handling</b>	Keep away from all ignition sources. Keep container tightly closed. Use only with adequate ventilation. Ground and bond containers when transferring materials. After this container has been emptied, it may contain product residue; observe all warnings and precautions listed for this product. <b>SPECIAL PRECAUTIONS:</b> Empty containers may contain toxic, flammable/combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse, or dispose of containers unless adequate precautions are taken against these hazards. Do not eat, drink, or smoke in areas of use or storage. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Remove contaminated clothing and thoroughly clean and dry before reuse. Wash thoroughly after work using soap and water.
<b>Storage</b>	Avoid heat, flames, sparks, and other sources of ignition. Grounding and bonding required. Keep container tightly closed. Store in a well-ventilated area.
<b>Transport Information</b>	
<b>TDG Classification</b>	Class 3 – Flammable liquid
<b>Special Provisions for Transport</b>	None

<b>Section 9. First Aid Measures</b>	
<b>Eye Contact</b>	Flush eyes with plenty of water (minimum of 5 minutes). Get medical attention if irritation persists.
<b>Skin Contact</b>	Wash exposed skin with soap and water (minimum 5 minutes). Remove contaminated clothing and thoroughly clean and dry before reuse. Get medical attention if irritation develops.
<b>Inhalation</b>	If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.
<b>Ingestion</b>	If swallowed, drink plenty of water, do NOT induce vomiting. Get immediate medical attention.
<b>Note to Physician</b>	None Available
<p><b>To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</b></p>	