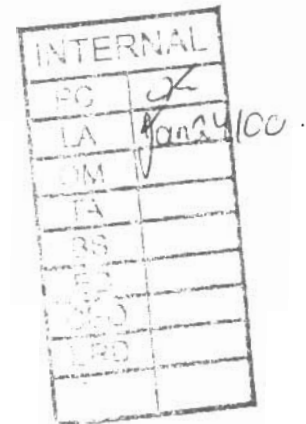


**Kennecott Canada Exploration Inc.**  
***Exploration Operations Document***  
***Northwest Territories***

**CONTINGENCY PLAN**  
**for Material Spills,**  
**in Exploration Camps**  
**and Drilling Operations**



**December 1999**

## **Preamble**

This Contingency Plan is effective from date of entry to date of closing for all field camps and diamond drilling operations in the Northwest Territories. The Plan is submitted as an attachment to Land Use Permit Application covering the Hood River and Tak Projects.

The Plan is intended to cover all exploration activities and camps to be operated by Kennecott Exploration in the Northwest Territories and Nunavut, which includes lands staked in the area covered by NTS Map Sheets 76L, 86I and 86H. The Plan will cover all operations, including drilling and aircraft operations, wherein the handling of spillable substances are involved.

This Plan will be distributed to Kennecott site managers and site contractors working on all Kennecott held properties. Regular site safety meetings are held whilst exploration sites are occupied, and include reviews of this Plan and other safety/environmental issues. The Plan will remain posted in camp offices and in the camp dining area, and will be posted at any future camps.

This Plan was prepared and approved by Kennecott Canada Exploration Inc. Additional information or copies are available from Kennecott Canada Exploration Inc. at (604) 669-1880, Ian Graham.

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## **1.0 INTRODUCTION**

### **1.1 Plan Purpose**

The purpose of Kennecott Canada Exploration Inc's Contingency Plan is to provide a plan of action for potential spill events that might occur at Exploration sites of activity. The Plan addresses any unintentional releases of petroleum products and other hazardous chemicals. It defines the responsibilities of key response personnel and outlines procedures to be taken to minimize the impact of a spill. The Plan has been prepared to provide to management and field staff the necessary information to deal with a spill.

### **1.2 Kennecott Policy on Cleanup**

It is Kennecott Canada Exploration Inc. policy to comply with all existing laws and regulations for the areas in which the company operates and to ensure protection of the environment in these areas.

This Contingency Plan has been developed to comply with the Company's policy statement and to fulfil specific Canadian and Northwest Territories/ Nunavut regulatory requirements.

### **1.3 Facility Description**

Temporary exploration accommodations for up to 20 people exists at the Bigfoot and Tak camps. Limited fuel drum storage caches for diesel, Jet-B, propane and gasoline have been established at this location.

### **1.4 Petroleum Product Transport and Storage**

The petroleum products required for project work on site will be transported by air from Yellowknife and/or Lupin. Fuel at Lupin is delivered using the Yellowknife - Lupin winter road.

Fuel movement once delivered by fixed wing aircraft is affected by helicopters using fuel slings. All fuel on site remains in standard fuel drums, and is stored in designated areas appropriate for the refuelling of aircraft, generating plant, snow machines and drills.

It is anticipated that the total petroleum product requirements for the projects will not exceed 100 diesel, 10 gasoline, and 150 of Jet-B during the field season.

The petroleum storage areas at the camp and drill sites are visually inspected on a daily basis to check for leakage or damage to any of the containers.

All fuel is stored a minimum of 30 metres from any high water mark, and transfer of fuel from supply vehicles to tanks and from tanks to vehicular equipment is performed with the aid of fuel pumps. Transport companies hauling fuel on the Echo Bay/Lupin winter road operate under their own Spill Contingency Plans. Material Safety Data Sheets (MSDS) for all fuels and chemicals are kept on site for reference, should they be required.

Should any fuel products be required in other areas within the claim block area appropriate amendments to the Land Use Permit will be applied for and fuel products will be stored and handled at the specific site in accordance with applicable Land Use Permit conditions.

### **1.5 Chemical Use and Storage**

Only a few litres of cleaning and maintenance compounds (including household type cleaners, degreasers, lubricating oils, etc.), often referred to as household hazardous materials, will also be used on site. However, the potential for spills of these materials to the environment is considered insignificant.

## **2.0 SPILL RISK ASSESSMENT**

### **2.1 Petroleum Products**

Potential sources of petroleum product spills could involve the following:

1. Leaking or ruptured fuel drums.
2. Fuel transfer operations between storage drums, and mobile equipment including aircraft. This could include broken supply pipes, hoses, and associated valves during fuel transfer operations.
3. Aircraft, snow-vehicles or equipment involved in accidents.
4. Leaks and drips from machinery, pumps, motors, and other equipment

The potential for spills to occur directly on a watercourse is low at the project site because fuel storage and transfer points are located away from watercourses. However, if a spill occurred during the winter on lake ice, it will be contained and cleaned up without contaminating the under – ice lake waters.

### **2.2 Chemicals**

Any chemicals brought to the project site in drums or bags will be stored indoors. Spillage may occur from accidental breakage of containers or during handling operations.

Practising safe handling and storage procedures, ensuring proper training in handling of the products, and conducting regular inspections of stored chemicals will minimise spills from chemicals.

### 3.0 RESPONSE ORGANIZATION

The members of the spill response team and their duties are listed below:

Response Team Member	Title/Company
On-scene Co-ordinator	Kevin Wallis Project Geologist Kennecott Canada Exploration Inc.
On-scene Co-ordinator (Alternate)	Dean Pekeski Project Geologist Kennecott Canada Exploration Inc.
Project Manager	Buddy Doyle Manager, Exploration Manager, Diamonds Kennecott Canada Exploration Inc.
Project Manager (Alternate)	Ian Graham Snr. Geologist Kennecott Canada Exploration Inc.
Environmental Advisors	Erik Madsen & Murray Swyripa Managers Environmental Affairs Diavik Diamond Mines Inc.
Project Personnel	There will be between 5 and 10 people on site to aid in any spill response activities.

**The responsibilities of the On-Scene Co-ordinator include the following:**

- ✓ Assume complete authority over the spill scene and personnel involved.
- ✓ Activate the Contingency Plan.
- ✓ Evaluate the initial situation and assesses the magnitude of the spill.
- ✓ Report the spill to the Project Manager or an Environmental Advisor, who in turn will report it to NWT 24-hour Spill Report Line at (867) 920-8130.
- ✓ Develop an overall plan of action.
- ✓ Report to the Project Manager and provide recommendations on resource requirements (additional manpower, equipment, material, etc.) to complete the cleanup effort.

The responsibility of the co-ordinator is to mobilise personnel and equipment to implement the cleanup.

**The Responsibilities of the Project Manager include the following:**

- ✓ Provide liaison with Kennecott Exploration management to keep them informed of cleanup activities.
- ✓ Obtain additional required resources not available on-site for spill response and cleanup.
- ✓ Act as the spokesperson with government agencies as well as the public and the media as appropriate.
- ✓ Document the cause of the spill and effectiveness of the cleanup effort, and implement the appropriate

measures to prevent a recurrence of the spill.

- ✓ Prepare and submit follow-up documentation required by appropriate regulators.
- ✓ Ensure that the spill is cleaned up and all follow-up communication and reports are filed with the DIAND Yellowknife District office in Yellowknife.

**The Environmental Advisors' duties include the following:**

- ✓ Provide technical advice on probable environmental impacts of the spill.
- ✓ Advise the On-Scene Co-ordinator on spill countermeasures and recommend the most appropriate options.
- ✓ Assist in developing any required sampling, testing, or monitoring program associated with the spill.
- ✓ As required, assist the Project Manager in dealing with appropriate government agencies as well as public and the media.
- ✓ Provide recommendations on spill prevention.

## **4.0 INITIAL ACTIONS**

In the event of a spill, the first person on the scene is responsible for the following actions:

1. Maintain alertness and ensure personal safety and that of others who are on the scene prior to the arrival of the Spill Response On-Scene Co-ordinator.
2. Assess the hazard to persons in the vicinity of the spill.
3. If possible, without further assistance, control any danger to human health.
4. Assess whether the spill can be readily stopped or brought under control.
5. Where safe to do so, stop the flow of the spilled product.
6. Report the spill without delay to the Spill Response On-Scene Co-ordinator.
7. Resume any action to contain, clean up, or stop the flow of spilled product until the On-Scene Co-ordinator takes control of the scene.

## 5.0 REPORTING PROCEDURE

The On-Scene Co-ordinator must be notified immediately of any spill. The following chain of command must be followed in the reporting process. Immediately contact:

Reporting Hierarchy	Title/Company/Phone/Fax
On-Scene Co-ordinator	Kevin Wallis or Dean Pekeski Project Geologists Kennecott Canada Exploration Inc. Phone: 604-669-1880 Fax: 604-669-5255
Government 24 Hour Spill Reporting Line (To be contacted by the Environmental Advisor, On-Scene Co-ordinator, Project Manager or his designee)	
phone	(867) 920-8130
fax	(867) 873-6924

NOTE: A "Spill Report" form (Attached to Appendix 1) should be filled out as completely as possible prior to or after calling the 24-Hour Spill Reporting Line.

## 6.0 ACTION PLAN

The following actions have been incorporated to minimise the potential for spills to occur during fuel handling, transfer, or storage operations:

- Immediately cleanup minor spills.
- Conduct regular inspections of fuel barrel storage areas and hoses for evidence of leaks.
- Use drip pans and/or oleophilic environmental blanket at all petroleum transfer sites and under stationary machinery.
- Train personnel in proper fuel handling and spill response procedures.

### 6.1 Spills on Land

Response to spills on land will include the Initial Actions listed in Section 4.0 and the following specific steps:

- (1) Identify the source of the leak or spill.
- (2) Contain the spill at the source if possible.



## (3) Stop a leak from a barrel by:

- ✓ ceasing filling operations if leaking vessel is receiving fuel
- ✓ checking valves and seals, and ceasing use of these valves if leaking
- ✓ transfer all fuels from leaking barrels
- ✓ placing plastic sheeting at the foot of the leak to minimise seepage of the spilled material to the environment.

Spills on land (gravel, rock, vegetation) can be contained and cleaned up by the following methods:

- ✓ Place a soil berm down slope of the running or seeping fuel. Plastic tarps can be placed at the foot of and over the berm to permit the fuel to pool on the plastic for easy capture. Berms can be made of snow and lined with plastic in the winter. Absorbent sheeting can be used to soak up the fuel. The fuel can be squeezed from the pads into drums or plastic pails, and the pads can then be re-used. Larger pools of fuel can be pumped into empty drums. It is especially important to prevent fuel from entering a body of water where it will have a greater environmental impact.
- ✓ Absorbent sheeting can be used to soak up petroleum products from rocks. The sheeting should be placed in the empty drums for eventual disposal by incineration.
- ✓ A light covering of Sphag Sorb™ or alternate absorbent material can be used to absorb films of petroleum products from arctic vegetation.
- ✓ Contaminated soil and vegetation may have to be removed for disposal. Kennecott will contact the appropriate DIAND regional office for approval before undertaking this action.
- ✓ Snow can work well as natural absorbent, and it can be compacted and used as a berm. Plastic sheeting then can be placed over the snow berm.

## 6.2 Spills on Water

Implementing the following steps can control spills of petroleum products on water:

- ✓ Floating 'boom(s)' can be deployed to contain the floating product.
- ✓ Absorbent pads and similar materials can be used to capture small spills on water. Absorbent booms can be drawn in slowly to encircle spilled fuel and then absorb it. These materials are hydrophobic, and therefore, absorb hydrocarbons but repel water. Absorbent booms are often relied on to recover any hydrocarbons that escape containment booms.
- ✓ A skimmer may be deployed once a boom has been secured to capture the spilled product, and then pump it through hoses to empty fuel drums.
- ✓ In the event of a larger spill on water, it will be necessary to limit the extent of the spill by using booms and it may be necessary to seek the assistance of the Mobil Environmental Response Unit. The 24-Hour Spill Report Line should be used to keep government agencies informed of the situation.

### **6.3 Spills on Snow and Ice**

Where a spill occurs on ice, snow should be compacted around the edge of the spill and lined with plastic sheeting to serve as a berm. The ice will prevent seepage of fuel into the water, but contaminated snow and ice must be scraped up immediately. The contaminated snow can then be placed in drums or on plastic and within plastic lined berms on land. Permission may be granted from appropriate Government departments to burn off pools of fuel (contact the 24 hour Spill Reporting Line). Should fuel get below the ice, assistance may be requested from the Canadian Northern Oil Distributors Ltd. Mobil Environmental Response Unit.

Kennecott Canada Exploration Inc. and Diavik Diamond Mines Inc. have agreements in principal with Canadian Northern Oil Distributors, to access their resources 24-hours per day, should these services be required.

## **7.0 SEWAGE DISCHARGE**

Type of treatment: At a Kennecott exploration camp, domestic sewage is not treated except by direct application of lime solution to permafrost contained sewage pits. Digester systems are generally employed at Kennecott exploration camps of any long term duration of the camp occupation, and a typically high number of occupants in the camp.

Should other smaller exploration camps be required within any other claim block areas appropriate amendments to current Land Use Permits would be applied for and all applicable clauses dealing with sewage disposal in the Land Use Permit would be adhered too.

## **8.0 RESOURCE INVENTORY**

### **A. Personnel**

In addition to the Spill Response Co-ordinator, at least two persons are permanently available on site to assist in spill response and clean up activities. During helicopter refuelling operations, at least three people are in camp. At least two people are stationed at drill sites during drilling operations.

### **B. General Equipment**

Rotary and fixed wing aircraft can be flown to the site from Yellowknife. Heavy earth moving equipment, hand tools, and miscellaneous equipment, such as plastic sheeting, are available at the camp site, and from Diavik, Ekati, Lupin and other Kennecott camps, and are available for use in the event of a spill.

### C. Spill Kits

Two spill kits are located at the camp site, and one kit is located at each drill site during drilling operations. Similar kits would be utilised at any other exploration camps within the claim block area. All kits are inspected on a monthly basis to ensure they are fully equipped and usable. Each Kit contains:

- 1-45 gal, 16 gauge Open Top Drum, c/w Bolting Ring & Gasket,
- 1-48"X 48"x 1/16" Neoprene Pad (drain stop),
- Plug N/Dike™ Granular, 1-gal U.S. (3.8 litres)
- Splash Protective Goggles
- 2-PVC Oil Resistant Gloves
- 1-pkg Polyethylene Disposable Bags (5 mil) 10 per Pack
- 1-Shovel (Spark Proof)
- 1-case T-12 3"x 12' Mini Boom, 4 booms / case
- 1-bale HP-256 17"x 19"x 1/2" Pads, 100 Pads/bail
- 1 bale of Sphag Sorb™

### D. Mobil Environmental Response Unit

Canadian Northern Oil Distributors, Ltd. in Yellowknife will make the Mobil Environmental Response Unit available to Diavik upon immediate notice. This unit can be transported to the site from Yellowknife in less than three hours, though mobilisation is potentially dependent on weather.

### E. Environmental Advisors

Advisors from the Diavik Diamond Mines Inc. Environmental Division are available to site personnel to address environmental issues related to a spill.

As well, additional Information or assistance is available from the following sources:

Organisation/Location	Name/Phone/Fax
Canadian Northern Oil Distributors, Ltd. Mobil equipment Response Unit Yellowknife	Matthew Wasserman (867) 873-3337 [Not available after hours]
Government of the NWT Environmental Protection Division Yellowknife	(867) 873-7654 fax: (867) 873-0221
Dept. of Indian Affairs & Northern Development Yellowknife	(867) 669-2760 fax: (867) 669-2720
Environment Canada Yellowknife	(867) 920-6060 fax: (867) 873-8185
G &G Expediting Yellowknife	Glen McCara / Greg Works (867) 669-9705
RCMP Yellowknife	(867) 920-8311
BHP Ekati Diamond Mine	(867) 669-0213 fax: (867) 669-0714

## **9.0 TRAINING**

All persons in camp are familiarised with procedures in this document upon arrival in camp. Drilling contractors are familiarised with the contents of this document in camp, and details of the Contingency Plan are posted at the drill. The nominated on-site co-ordinators are responsible for the updating of the contents of the Contingency Plan, including specified reporting requirements.

Camp managers are employed at most camps, and form an integral part of spill response planning. The Tak camp manager will be the primary person responsible for physical clean-up at the direction of the on-site co-ordinator. In the event the co-ordinator is absent from site, the camp manager will act as the cleanup co-ordinator.

# Kennecott Canada Exploration Inc.

## W.H.M.I.S. MATERIAL SAFETY DATA SHEETS

### CROSS-REFERENCED INDEX

#### 1330 Drilling Fluid

#### 133X Drilling Fluid

#### 3-GP-11M (Esso)

See Middle Distillate

#### 3-GP-15M (Esso)

See Middle Distillate

#### 3GP-24M Aviation Turbine Fuel

See Aviation Turbine Fuel,  
Kerosene Type

#### 3139 Solvent

- Varsol 3139 Solvent
- Varsol DX 3139 Solvent

#### Acetylene

#### Acrylamide Copolymer (Extreme No. 1)

#### Acrylamide Copolymer (Extreme Stop)

#### Acrylate Copolymer

See Extreme Number One

#### Air

See Breathing Air

#### Alconox

#### Aliphatic Hydrocarbon

- Isosol
- Varsol
- Varsol 3139 Solvent (Esso)

#### Alkamer, Extreme

See Polyacrylamide

#### Antifreeze/Coolant

#### Aromatic Hydrocarbon

- Toluene
- Xylene

#### Asphalt

See Asphalt Cold Patch

#### Asphalt Cold Patch

#### Automotive Fuel

- Gasoline, Formula Shell Bronze  
See Formula Shell Bronze  
Gasoline
- Gasoline, Leaded
- Gasoline, Unleaded

#### Aviation Gasoline

- 3GP-24M  
See Aviation Turbine Fuel,  
High Flash Type
- Aviation Gasoline

See Gasoline, Aviation

- Aviation Turbine Fuel, High Flash  
Type

- Aviation Turbine Fuel, Kerosene  
Type

- Aviation Turbine Fuel, Wide Cut  
Type

- Fuel A / A1, Esso

See Aviation Turbine Fuel,  
Kerosene Type

- Fuel B, Esso

See Aviation Turbine Fuel,  
Wide Cut Type

- Gasoline, Aviation

- High Flash Type, Turbine Fuel

See Aviation Turbine Fuel,  
High Flash Type

- Jet 5, Esso

See Aviation Turbine Fuel,  
High Flash Type

- Jet A / A1, Esso

See Aviation Turbine Fuel,  
Kerosene Type

- Jet B, Esso

See Aviation Turbine Fuel,  
Wide Cut Type

- Kerosene Type, Turbine Fuel

See Aviation Turbine Fuel,  
Kerosene Type

- Turbo Fuel 5, Esso

See Aviation Turbine Fuel,  
High Flash Type

- Turbo Fuel A / A1, Esso

See Aviation Turbine Fuel,  
Wide Cut Type

- Turbo Fuel B / B F40, Esso

See Aviation Turbine Fuel,  
Wide Cut Type

- Wide Cut Type, Turbine Fuel

See Aviation Turbine Fuel,  
Wide Cut Type

**Aviation Turbine Fuel, High Flash Type**

**Aviation Turbine Fuel, Kerosene Type**

<b>Aviation Turbine Fuel, Wide Cut Type</b>	
Baking Soda	See Sodium Bicarbonate
<b>Bentonite (powder, chips, pellets)</b>	Also Sodium Montmorillonite
Bleach	See Sodium Hypochlorite
Booster, Extreme	See Cellulose (semi-synthetic)
<b>Breathing Air</b>	
Bronze Gasoline	See Formula Shell Bronze Gasoline
Burner Fuel	See Kerosene
Calcium Chloride	See Peladow
<b>Calcium Hydroxide</b>	
<b>Calcium Hypochlorite</b>	
<b>Calcium Sulphate</b>	
<b>Carbon Dioxide</b>	
Carbonic Anhydride	See Carbon Dioxide
Caustic Soda	• Sodium Hydroxide (beads, flakes, pellets) • Sodium Hydroxide (50% solution)
<b>Cellulose (semi-synthetic)</b>	
<b>Cement</b>	
<b>Chlorine Gas</b>	
Chlorol	See Chlorine Gas
Chlor	See Chlorine Gas
Chlore	See Chlorine Gas
<b>Citric Acid</b>	
Clay	See Bentonite
Clay Seam, Extreme	See Polyacrylic Acid
<b>Clay Treat II</b>	
CO <sub>2</sub>	See Carbon Dioxide
Coal Oil	See Kerosene
<b>Coated Electrodes for Arc Welding</b>	
Commerical Fuel	• Diesel Quality See Middle Distillate • Light Distillate • Middle Distillate • Stove Quality See Light Distillate
Common Clay	See Bentonite
Coolant/Antifreeze	See Antifreeze/Coolant:
<b>Diesel Fuel</b>	• Diesel 60 (Esso) See Light Distillate • Diesel Arctic (Esso) See Light Distillate • Diesel Dew (Esso) See Light Distillate • Diesel Fuel • Diesel Fuel Light (Esso) See Light Distillate • Domestic Marine Diesel See Diesel Fuel • Light Distillate • Marine Diesel • Diesel Fuel • Marine Diesel • Middle Distillate • Railroad Diesel Fuel #3 See Middle Distillate
Domestic Marine Diesel	See Diesel Fuel
Drill Mud	See Bentonite
Drilling Fluid	• 133O Drilling Fluid • 133X Drilling Fluid • O.B.X. Drilling Fluid
Dry Ice	See Carbon Dioxide
DX 3139 Solvent	See Varsol DX 3139 Solvent
Easymix	See Petroleum Oil
Electrodes for Arc Welding	See Coated Electrodes for Arc Welding
Eliminate	• Well Klean II Concentrate • Well Klean II Premix
Engine Oil	See Lubricating Oil
EPC Refuelling, Diesel Fuel	See Middle Distillate
Esso Rad	See Antifreeze/Coolant:
Ethylene Glycol	See Antifreeze/Coolant
Ethine	See Acetylene
Ethyne	See Acetylene
Extreme Alkamer	See Polyacrylamide

Extreme Booster  
See Cellulose (semi-synthetic)

Extreme Clay Seam  
See Polyacrylic Acid

Extreme Gel  
See Sodium Montmorillonite

**Extreme Kool**

**Extreme Kwik-Seal**

Extreme Kwik-Set  
See Calcium Sulphate

Extreme Linseed Lube  
See Linseed Soap

Extreme Number One  
See Acrylamide Polymer

Extreme Rod Grease  
See Petroleum Hydrocarbon  
(Extreme Rod Grease)

Extreme Stop  
See Acrylamide Copolymer  
(Extreme Stop)

**Extreme Torq-EEZ**

**Extreme Triple E**

**Formula Shell Bronze Gasoline**

Fuel Oil

- Fuel Oil 75  
See Middle Distillate
- Fuel Oil 76  
See Middle Distillate
- Intermediate Residual Fuel
- Light Distillate
- Middle Distillate

Furnace Fuel

- Diesel Quality  
See Middle Distillate
- Light Distillate
- Middle Distillate
- Stove Quality  
See Light Distillate

Gas Oil

Marine Gas Oil  
See Middle Distillate

**Gasoline, Aviation**

- 3GP-24M  
See Aviation Turbine Fuel,  
High Flash Type
- Aviation Gasoline  
See Gasoline, Aviation
- Aviation Turbine Fuel, High Flash  
Type
- Aviation Turbine Fuel, Kerosene  
Type
- Aviation Turbine Fuel, Wide Cut  
Type
- Fuel A / A1, Esso  
See Aviation Turbine Fuel,  
Kerosene Type

- Fuel B, Esso  
See Aviation Turbine Fuel,  
Wide Cut Type

- Gasoline, Aviation

- High Flash Type, Turbine Fuel  
See Aviation Turbine Fuel,  
High Flash Type

- Jet 5, Esso  
See Aviation Turbine Fuel,  
High Flash Type

- Jet A / A1, Esso  
See Aviation Turbine Fuel,  
Kerosene Type

- Jet B, Esso  
See Aviation Turbine Fuel,  
Wide Cut Type

- Kerosene Type, Turbine Fuel  
See Aviation Turbine Fuel,  
Kerosene Type

- Turbo Fuel 5, Esso  
See Aviation Turbine Fuel,  
High Flash Type

- Turbo Fuel A / A1, Esso  
See Aviation Turbine Fuel,  
Wide Cut Type

- Turbo Fuel B / B F40, Esso  
See Aviation Turbine Fuel,  
Wide Cut Type

- Wide Cut Type, Turbine Fuel  
See Aviation Turbine Fuel,  
Wide Cut Type

Gasoline, Formula Shell Bronze

See Formula Shell Bronze Gasoline

Gasoline, Indolene

See Gasoline, Unleaded

**Gasoline, Leaded**

Gasoline, Midgrade

See Gasoline, Unleaded

**Gasoline, Unleaded**

Gel, Extreme

See Sodium Montmorillonite

**Grease**

Green Stuff

See Synthetic Tool Joint Compound

Grout

- Cement
- XPR Grout

HCL

See Hydrochloric Acid

Heater Fuel, Portable Heater

See Portable Heater Fuel



Heating Oil	Kool, Extreme
• Diesel Quality	See Extreme Kool
See Middle Distillate	Kwik-Seal, Extreme
• Light Distillate	See Extreme Kwik-Seal
• Middle Distillate	Kwik-Set, Extreme
• Stove Quality	See Calcium Sulphate
See Light Distillate	<b>Laynite P-6 Well Treatment Compound</b>
HF	<b>Laynite P-7 Well Treatment Compound</b>
See Hydrofluoric Acid	Leaded Gasoline
High Flash Type Aviation Turbine Fuel	See Gasoline, Leaded
See Aviation Turbine Fuel, High Flash Type	<b>Light Distillate</b>
HTH	Linseed Lube, Extreme
See Calcium Hypochlorite	See Linseed Soap
Hydrated Lime	<b>Linseed Soap</b>
See Calcium Hydroxide	<b>Liquified Propane</b>
<b>Hydraulic Fluid</b>	Liquinox
Hydraulic Oil	See Alconox
See Hydraulic Fluid	LP Gas
<b>Hydrochloric Acid</b>	See Liquified Propane
<b>Hydrofluoric Acid</b>	LPG
Hydrogen Chloride	See Liquified Propane
See Hydrochloric Acid	<b>Lubricating Oil</b>
Hydrogen Fluoride	Marine Diesel
See Hydrofluoric Acid	• Diesel Fuel
Hydrogen Phosphate	• Middle Distillate
See Phosphoric Acid	Marine Gas Oil
Imperial Royal Fuel Oil	See Middle Distillate
See Intermediate Residual Fuel	Marine Intermediate Fuel
Imperial Toluene	See Intermediate Residual Fuel
See Toluene	Medium Distillate
Imperial Xylene	See Middle Distillate
See Xylene	Methacrylate Mortar System
Indolene Gasoline	• Sikapronto 11 Part A
See Gasoline, Unleaded	• Sikapronto 11 Part B
Industrial Oil	<b>Middle Distillate</b>
See Lubricating Oil	Midgrade Gasoline (Esso)
Intermediate Fuel Oil	See Gasoline, Unleaded
See Intermediate Residual Fuel	Motor Oil
<b>Intermediate Residual Fuel</b>	See Lubricating Oil
<b>Iosol</b>	Muriatic Acid
Jet 5, Aviation Turbine Fuel, Esso	See Hydrochloric Acid
See Aviation Turbine Fuel, High Flash Type	Naptha
Jet A / A1, Aviation Turbine Fuel, Esso	• Heater Fuel, Portable Heater
See Aviation Turbine Fuel, Kerosene Type	See Portable Heater Fuel
Jet B / B F40, Aviation Turbine Fuel, Esso	• Iosol
See Aviation Turbine Fuel, Wide Cut Type	• Portable Heater Fuel
<b>Kerosene</b>	• Varsol
Kerosene Type Turbine Aviation Fuel	• Varsol 3139 Solvent (Esso)
See Aviation Turbine Fuel, Kerosene Type	• Varsol DX 3139 Solvent (Esso)
King Stuff	<b>Nitrogen</b>
See Synthetic Tool Joint Compound	Number One, Extreme
	See Acrylamide Polymer
	O <sub>2</sub>
	See Oxygen
	<b>O.B.X. Drilling Fluid</b>



Oil	<ul style="list-style-type: none"> <li>• Heating Oil, Diesel Quality See Middle Distillate</li> <li>• Heating Oil, Stove Quality See Light Distillate</li> <li>• Hydraulic Fluid</li> <li>• Kerosene</li> <li>• Lubricating Oil</li> <li>• Petroleum Oil</li> <li>• Snowmobile Oil (Esso)</li> <li>• Synthetic Oil</li> <li>• Tobacco Curing Oil See Middle Distillate</li> </ul>
Orange Aid	See Synthetic Tool Joint Compound
<b>Oxygen</b>	
P-6 Well Treatment Compound	See Laynite P-6 Well Treatment Compound
P-7 Well Treatment Compound	See Laynite P-7 Well Treatment Compound
Paving Mix	See Asphalt Cold Patch
<b>Peladow</b>	
<b>Petroleum Hydrocarbon (Extreme Rod Grease)</b>	
Petroleum Oil	<ul style="list-style-type: none"> <li>• Petroleum Oil</li> <li>• Snowmobile Oil</li> </ul>
<b>Phosphoric Acid</b>	
<b>Pipe Klean</b>	
<b>Pipe Klean Pre-Blend</b>	
<b>Polyacrylamide</b>	
<b>Polyacrylic Acid</b>	
Poly-Drill Drilling	<ul style="list-style-type: none"> <li>• 133O Drilling Fluid</li> <li>• 133X Drilling Fluid</li> <li>• Clay Treat II</li> <li>• O.B.X Drilling Fluid</li> </ul>
Polyphos F	See Laynite P-7 Well Treatment Compound
<b>Portable Heater Fuel</b>	
Portland	See Cement
<b>Potassium Permanganate</b>	
Propane, Liquified	See Liquified Propane
<b>QC-21 Well Cleaner</b>	
Rad (Esso)	See Antifreeze/Coolant
Railroad Diesel Fuel #3	See Middle Distillate
Range Oil	See Kerosene
RediMix	See Cement
Regular Gasoline	<ul style="list-style-type: none"> <li>• Gasoline, Leaded</li> <li>• Gasoline, Unleaded</li> </ul>
Residual Fuel, Intermediate	See Intermediate Residual Fuel
Rod Grease, Extreme	See Petroleum Hydrocarbon (Extreme Rod Grease)
Royal Fuel Oil	See Intermediate Residual Fuel
Sakrete	See Cement
<b>Sand</b>	
Shell, Formula Bronze Gasoline	See Formula Shell Bronze Gasoline
<b>Sikapronto 11 Part A</b>	
<b>Sikapronto 11 Part B</b>	
Silica Sand	See Sand
Slaked Lime	See Calcium Hydroxide
<b>Snowmobile Oil (Esso)</b>	
<b>Soda Ash</b>	
Soda Lye	<ul style="list-style-type: none"> <li>• Sodium Hydroxide (beads, flakes, pellets)</li> <li>• Sodium Hydroxide (50% solution)</li> </ul>
<b>Sodium Bicarbonate</b>	
Sodium Carbonate	See Soda Ash
Sodium Hexametaphosphate	See Laynite P-7 Well Treatment Compound
<b>Sodium Hydroxide (beads, flakes, pellets)</b>	
<b>Sodium Hydroxide (50% solution)</b>	
<b>Sodium Hypochlorite</b>	
<b>Sodium Montmorillonite</b>	See also Bentonite
Sodium Tripolyphosphate	See Laynite P-6 Well Treatment Compound
Stop, Extreme	See Acrylamide Polymer (Extreme Stop)
Stove Oil	See Light Distillate
STPP	See Laynite P-6 Well Treatment Compound
<b>Synthetic Oil</b>	
<b>Synthetic Tool Joint Compound</b>	
Terracrete	See XPR Grout

Tobacco Curing Oil  
See Middle Distillate

**Toluene**

Torq-EEZ, Extreme  
See Extreme Torq-EEZ

**Transmission Oil**

Transmission Fluid  
See Transmission Oil

Triple E, Extreme  
See Extreme Triple E

Turbine Fuel, Aviation

- 3GP-24M  
See Aviation Turbine Fuel, High Flash Type
- Aviation Gasoline  
See Gasoline, Aviation
- Aviation Turbine Fuel, High Flash Type
- Aviation Turbine Fuel, Kerosene Type
- Aviation Turbine Fuel, Wide Cut Type
- Fuel A / A1, Esso  
See Aviation Turbine Fuel, Kerosene Type
- Fuel B, Esso  
See Aviation Turbine Fuel, Wide Cut Type
- Gasoline, Aviation
- High Flash Type, Turbine Fuel  
See Aviation Turbine Fuel, High Flash Type
- Jet 5, Esso  
See Aviation Turbine Fuel, High Flash Type
- Jet A / A1, Esso  
See Aviation Turbine Fuel, Kerosene Type
- Jet B, Esso  
See Aviation Turbine Fuel, Wide Cut Type
- Kerosene Type, Turbine Fuel  
See Aviation Turbine Fuel, Kerosene Type
- Turbo Fuel 5, Esso  
See Aviation Turbine Fuel, High Flash Type
- Turbo Fuel A / A1, Esso  
See Aviation Turbine Fuel, Wide Cut Type
- Turbo Fuel B / B F40, Esso  
See Aviation Turbine Fuel, Wide Cut Type
- Wide Cut Type, Turbine Fuel  
See Aviation Turbine Fuel, Wide Cut Type

Turbo Fuel 5, Aviation (Esso)  
See Aviation Turbine Fuel, High Flash Type

Turbo Fuel A / A1, Aviation (Esso)  
See Aviation Turbine Fuel, Kerosene Type

Turbo Fuel B / B F40, Aviation (Esso)  
See Aviation Turbine Fuel, Wide Cut Type

Unleaded Gasoline  
See Gasoline, Unleaded

**Varsol**

**Varsol 3139 Solvent (Esso)**

**Varsol DX 3139 Solvent (Esso)**

Welding Rods  
See Coated Electrodes for Arc

Well Cleaner, QC-21  
See QC-21 Well Cleaner

**Well Klean II Concentrate**

**Well Klean II Premix**

Well Rehabilitation  
See Well Klean II Premix

Well Rehabilitation Concentrate  
See Well Klean II Concentrate

Well Treatment Compound

- Laynite P-6 Well Treatment Compound
- Laynite P-7 Well Treatment Compound

Wide Cut Type Turbine Aviation Fuel  
See Aviation Turbine Fuel, Kerosene Type

**XPR Grout**

**Xylene**

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Exploration Inc., Vancouver Office

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Compiled by J. Andrew Jeffrey