

## SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Product Name</b>	<b>WG-111L</b>	<b>Code</b>	1287
<b>Supplier</b>	Trican Well Service Ltd. 2900, 645 – 7 <sup>th</sup> Ave S.W. Calgary, Alberta, T2P 4G8 For Product Information/MSDS Call: 403-266-0202 or 403-723-3688 (8:00 AM – 5:00 PM MST, Monday – Friday)	<b>Revision Date</b>	June 21, 2011
<b>Product Uses</b>	Viscosifier	<b>Supersedes Date</b>	November 23, 2010
<b>24 Hour Emergency Numbers</b>	CANUTEC 613-996-6666 (Canada 24 hours)	<b>Original Creation</b>	January 29, 2002

## SECTION 2. HAZARDS IDENTIFICATION

**WHMIS (Pictograms)** **Workplace Hazardous Material Information System Classification**



**B3** Combustible Liquid

### Hazard Summary

**WARNING! COMBUSTIBLE LIQUID AND VAPOUR. IRRITANT. ALLERGEN. ASPIRATION HAZARD.**

Inhalation of vapours may cause respiratory irritation, headache, dizziness, nausea, loss of consciousness, and in cases of extreme exposure, possibly death. May cause allergic respiratory reaction. This is a low viscosity material - if swallowed, it may be aspirated and can cause serious or fatal lung damage.

Avoid excessive heat, open flames, sparks and ignition sources. Liquid can release vapors that readily form flammable mixtures at or above the flashpoint. Product can accumulate static charge which may cause a fire or explosion.

**Routes of Exposure** Eye and skin contact, inhalation and ingestion.

### Potential Acute Health Effects

<b>Eyes Contact</b>	May cause eye irritation.
<b>Skin Contact/Absorption</b>	May cause mild irritation. Causes drying of the skin.
<b>Inhalation</b>	May cause respiratory irritation. May cause allergic reaction. May cause chemical pneumonia. May cause nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness, and unconsciousness.
<b>Ingestion</b>	Irritation of the mouth, throat, and stomach. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. May cause central nervous system depression including headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors, and convulsions.

**Medical Conditions Aggravated by Exposure** Skin disorders.

*See also Toxicological Information (Section 11)*

**Additional Remarks** Individuals with skin or respiratory diseases should not be exposed to this product unless properly protected.

## SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<b>Name</b>	<b>CAS #</b>	<b>% (wt)</b>
Light hydrotreated petroleum distillate	64742-47-8	30-60
Polysaccharide blend	Not available	30-60

**SECTION 4. FIRST AID MEASURES**

<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Seek medical attention.
<b>Skin Contact</b>	Wash thoroughly with soap and water for at least 5 minutes. If symptoms develop or persist, seek medical attention. Remove contaminated clothing immediately and launder before reuse.
<b>Inhalation</b>	Remove person to fresh air. If not breathing, provide artificial respiration. Keep at rest. If breathing is difficult or symptoms develop, seek prompt medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of material into lungs. Never give anything by mouth to an unconscious person. Keep at rest. Seek medical attention.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Additional Remarks</b>	None

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Conditions of Flammability</b>	Combustible liquid. When heated above the flashpoint, releases flammable vapours. When mixed with air and exposed to ignition source, vapours can burn in open or explode if confined. Vapours may be heavier than air. May travel long distances along the ground before ignition and flashing back to vapour source. Vapours may collect in low or confined areas creating fire or explosion hazard. Heat may build enough pressure to rupture closed containers, spreading fire and increasing risk of injuries. Burning liquid may float on water.
<b>Extinguishing Media</b>	Use foam, CO <sub>2</sub> , dry chemical or water fog. Do not use solid water stream as it may scatter material and spread the fire. Water spray may be used to cool containers exposed to fire conditions.
<b>Protection of Firefighters</b>	As in any fire, wear full fire fighting gear including NIOSH-approved positive pressure self-contained breathing apparatus.
<b>Hazardous Combustion Products</b>	Carbon monoxide, carbon dioxide and other toxic vapours.
<b>Sensitivity to Mechanical Impact</b>	Not expected
<b>Sensitivity to Static Discharge</b>	Not expected
<b>Additional Remarks</b>	Material forms slippery compound in contact with water.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	Eliminate all ignition sources. Isolate hazard area and restrict access. Try to work upwind of spill. Do not touch or walk through spilled material. Spilled material is slippery when wet. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Shut off leak if it can be done safely.
<b>Environmental Precautions</b>	Prevent substance from entering natural bodies of water and sewer systems. If released, try to contain and recover floating material.
<b>Clean Up Methods</b>	<p>SMALL SPILLS: Stop leak if without risk. Move containers from spill area. Absorb with an inert material. Place residues in a suitable, covered, properly labeled container. Dispose of via a licensed waste disposal contractor.</p> <p>LARGE SPILLS: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Dike spill area and do not allow product to reach sewage system or surface or ground water. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilled product.</p>
<b>Additional Remarks</b>	Waste must be disposed of in accordance with federal, provincial and local environmental control regulations.

**SECTION 7. HANDLING AND STORAGE**

<b>Fire Prevention</b>	Keep away from heat, open flames sparks and other ignition sources. Do NOT cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity or other sources of ignition.
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<b>Worker Contact</b>	Wear appropriate personal protective equipment. Avoid contact with eyes. Avoid prolonged or repeated skin contact. Avoid breathing vapours or mists. Do not ingest. Maintain good personal hygiene. Do not smoke, eat or drink when handling this product. Wash thoroughly after handling product and before eating, drinking or smoking.
<b>Storage Requirements</b>	Store in a cool, dry, well-ventilated area, away from incompatible materials. Keep container tightly closed when not in use.
<b>Additional Remarks</b>	None

## SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Exposure Guidelines / Limits** Not available for product.  
Please consult with local authorities for acceptable provincial exposure limits since values can vary from jurisdiction to jurisdiction.

**Engineering Controls** Provide general ventilation or other engineering controls to keep the airborne concentrations below their respective occupational exposure limits.

### Personal Protection

Personal Protective Equipment recommendations are based on anticipated known manufacturing and use conditions. These conditions are expected to result in only incidental exposure. A thorough review of the job tasks and conditions by a safety professional is recommended, however, to determine the level of person protective equipment appropriate for these job tasks and conditions.

- Respirator** A respirator should not be required under expected conditions of use. A NIOSH approved air-purifying mask equipped with organic vapour cartridges with N95 prefilters is recommended in high airborne concentrations. In poorly ventilated areas or emergency situations use a NIOSH-approved atmosphere-supplying respirator.
- Hands** Nitrile or neoprene gloves.
- Eyes** Chemical safety goggles if product may be splashed into eyes.
- Body** Wear long sleeves and pants of an impervious material to prevent prolonged or repeated skin contact. Remove contaminated clothing and launder before reuse.
- Feet** No special equipment.
- Other** Eyewash stations and safety showers should be near the work location.

### Protective Clothing (Pictograms)



**Additional Remarks** None

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid.
<b>Odour and Appearance</b>	Hydrocarbon odour; beige color
<b>Odour Threshold</b>	Not available
<b>Specific Gravity</b>	1.05
<b>Flashpoint</b>	82 °C
<b>Upper Flammable Limit</b>	Not available
<b>Lower Flammable Limit</b>	Not available
<b>Autoignition Temperature</b>	Not available
<b>Vapour Density (air=1)</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Boiling Point</b>	204-370 °C
<b>Freezing / Melting Point</b>	Not available
<b>pH</b>	6.5-8.0
<b>Viscosity</b>	Not available
<b>Solubility in Water</b>	Insoluble; forms colloidal suspension
<b>Coefficient of Water/Oil</b>	Not available
<b>Additional Remarks</b>	None

## SECTION 10. STABILITY AND REACTIVITY DATA

<b>Chemical Stability</b>	Stable under normal conditions of use and storage.
<b>Conditions of Instability</b>	Extreme heat, static charge, sparks.
<b>Incompatible Material</b>	Strong oxidizing agents, strong reducing agents.
<b>Conditions of Reactivity</b>	None specified

<b>Hazardous Decomposition Products</b>	Not available
<b>Hazardous Polymerization</b>	Will not occur
<b>Additional Remarks</b>	None

### SECTION 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Not available for product.
<b>Acute Toxicity for Components</b>	Not available for components.
<b>Effects of Acute Exposure</b>	See Hazards Identification (Section 2)
<b>Effects of Chronic Exposure</b>	Not available
<b>Irritancy of Product</b>	See Hazards Identification (Section 2)
<b>Skin Sensitization</b>	Not available
<b>Respiratory Sensitization</b>	Not available
<b>Carcinogenicity</b>	No components listed as carcinogenic by ACGIH, IARC, OSHA or NTP.
<b>Reproductive Toxicity</b>	Not available
<b>Teratogenicity</b>	Not available
<b>Embryotoxicity</b>	Not available
<b>Mutagenicity</b>	Not available
<b>Synergistic Products/Effects</b>	Not available
<b>Additional Remarks</b>	None

### SECTION 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not available for product.
<b>Degradability</b>	Not available
<b>Bioaccumulation</b>	Not available
<b>Mobility</b>	Not available
<b>Additional Remarks</b>	Do not allow product or run-off from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. May be harmful to aquatic life.

### SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use, dilution or contamination of this product may cause its physical and chemical properties to change. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Dispose in accordance with federal, provincial and local regulations.

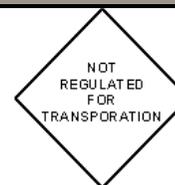
Dispose of all packaging in accordance with local regulations. Empty containers may contain residue and should be completely drained and safely stored until appropriately reconditioned or disposed. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

**Additional Remarks** None

### SECTION 14. TRANSPORT INFORMATION

**TDG Classification**

NOT REGULATED



<b>Marine Pollutant</b>	Not available
<b>Additional Transport Information</b>	Not available
<b>Emergency Response Guide</b>	Not available

### SECTION 15. REGULATORY INFORMATION

**Canadian Regulations**

**WHMIS** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all information required by the CPR.

**DSL Inventory** All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

**TSCA Inventory Status** All components are included or are exempted from listing on the US Toxic Substances Control Act Inventory.

<b>Additional Remarks</b>	None
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<b>SECTION 16. OTHER INFORMATION</b>	
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<b>NFPA Rating</b>	Health: 1 Flammability: 2 Instability: 0 Special: none
<b>HMIS Rating</b>	Health: 1 Flammability: 2 Reactivity: 0 Other: none <i>0=Insignificant 1 = Slight 2= Moderate 3= High 4 = Extreme * = chronic</i>

<b>Revisions</b>	June 21, 2011: Changes to Section 3 – addition of CAS number to ingredient. Nov 23, 2010: Change in WHMIS classification to B3 Combustible Liquid. Information changed as appropriate throughout. Additional health effects added to Section 2.
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<b>Prepared by</b>	Trican Well Service Corporate Health, Safety & Environment Department (403) 723-3688
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**Trican Well Service Ltd. Disclaimer**  
*NOTE: The information on this MSDS is based on data which is considered to be accurate. Trican Well Service Ltd., however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product. This MSDS was prepared and is to be used for this product. If the product is used as a component in another product, this MSDS information may not be applicable.*

END OF MATERIAL SAFETY DATA SHEET