

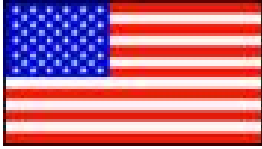
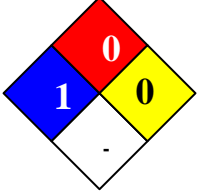


Protective Equipment	TDG	WHMIS
  See SECTION VIII for details	<b>Shipping Name:</b> NOT DANGEROUS GOODS <b>TDG Classification:</b> Not Applicable <b>UN Number (PIN):</b> Not Applicable <b>Packing Group:</b> Not Applicable <b>Emergency Response Guide Number:</b> <b>Not registered</b> <b>Emergency Phone:</b> CHEMTREC 1-800-424-9300  See SECTION XIV for details	<b>Not WHMIS Regulated</b>  See SECTION XV for details
DOT		
	<b>Shipping Name:</b> NOT HAZARDOUS MATERIAL <b>HAZMAT Classification:</b> Not Applicable <b>UN Number (PIN):</b> Not Applicable <b>Packing Group:</b> Not Applicable <b>Emergency Phone:</b> CHEMTREC 1-800-424-9300	

### SECTION I: Chemical Product and Company Identification

<b>Common/Trade Name</b>	DWP-111-1
<b>Synonyms</b>	Not Available
<b>Chemical Name</b>	Not Available
<b>Chemical Formula</b>	Not Available
<b>Chemical Family</b>	Polysaccharide suspension
<b>Supplier</b>	Calfrac Well Services Ltd. 411-8 <sup>th</sup> Avenue SW Calgary, Alberta T2P 1E3
<b>Document Number</b>	MSDS-DWP-111-1 Rev 0
<b>Date of Preparation</b>	December 31, 2009
<b>Prepared By</b>	Calfrac Well Services
<b>Phone number of Preparer</b>	(403) 266 6000
<b>Material Uses</b>	Viscosity Additive

### SECTION II: Hazards Identification

<b>Routes of Entry</b>	[XX] SKIN [XX] EYE CONTACT [X] INHALATION [X] INGESTION
<b>Threshold Limit Value</b>	Not determined
<b>Skin Contact</b>	No adverse reaction expected
<b>Eye Contact</b>	Mechanical irritation
<b>Ingestion</b>	Low oral toxicity. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.
<b>Inhalation</b>	Vapors, mists or fumes may cause irritation to the respiratory tract.

### SECTION III: Hazardous Ingredients

Name	Percent (%)	CAS#	LD <sub>50</sub> (oral rat)	LC <sub>50</sub> (dermal rabbit)

**NO HAZARDOUS INGREDIENTS**

**SECTION IV: First Aid Measures**

<b>Skin Contact</b>	Flush skin with soap and water for five minutes after contact. Seek medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
<b>Eye Contact</b>	Flush eyes immediately with water for at least 15 minutes. Seek medical attention.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Keep at rest. Seek medical attention.
<b>Inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep at rest. Seek medical attention.

**SECTION V: Fire Fighting Measures**

<b>Flash Point (Method)</b>	>100°C (TCC)
<b>Flammable Limits</b>	Not Determined
<b>Extinguishing Media</b>	Foam, CO <sub>2</sub> , Dry Chemical, Water Spray
<b>Special Fire Fighting Procedures</b>	Use full protective equipment and self-contained breathing apparatus.
<b>Unusual Fire and Explosion Hazards</b>	Forms slippery compound when mixed with water

**SECTION VI: Accidental Release Measures**

<b>Steps to be taken in case the Material is Spilled or Released</b>	(Use appropriate safety equipment). Clean up with suitable absorbent. Store contaminated absorbent in closed container, dispose according to local regulations. Avoid flushing with water as material becomes slippery when wet.
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**SECTION VII: Handling and Storage**

<b>Precautions to be taken in Handling and Storing</b>	Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Store in sealed containers in a cool ventilated area.
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**SECTION VIII: Exposure Control/Personal Protection**

<b>Special Protection Information</b>	
<b>Respiratory Protection</b>	Use NIOSH/MSHA approved respiratory product when airborne exposure exceeds TLV.
<b>Ventilation</b>	General Mechanical
<b>Protective Gloves</b>	Impervious gloves
<b>Eye Protection</b>	Goggles
<b>Other Protective Equipment (Specify)</b>	None required

**SECTION IX: Physical and Chemical Properties**

<b>Appearance</b>	Opaque, dark brown liquid.
<b>Odor</b>	Very little odour
<b>Specific Gravity</b>	1.054
<b>Boiling Point (°C)</b>	280°C
<b>Melting Point (°C)</b>	Not Determined
<b>Solubility in Water</b>	Insoluble
<b>Percent Volatile by Volume</b>	Not Determined
<b>Evaporation Rate</b>	Not Determined
<b>Vapor Pressure (mm Hg)</b>	Not Determined
<b>Vapor Density (Air = 1)</b>	Not Determined
<b>pH</b>	Not Determined

<b>SECTION X: Stability and Reactivity</b>	
<b>Stability</b>	<input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE
<b>Incompatibility (Conditions to Avoid)</b>	Strong oxidizers, strong reducers.
<b>Conditions of Reactivity</b>	Not Determined
<b>Hazardous Decomposition Products</b>	CO <sub>x</sub> , smoke on combustion
<b>Hazardous Polymerization</b>	<input checked="" type="checkbox"/> WILL NOT OCCUR <input type="checkbox"/> MAY OCCUR

<b>SECTION XI: Toxicological Information</b>	
<b>Sensitization to Product</b>	No Information Available
<b>Carcinogenicity</b>	No Information Available
<b>Irritancy to Product</b>	No Information Available
<b>Reproductive Toxicity</b>	No Information Available
<b>Teratogenicity</b>	No Information Available
<b>Mutagenicity</b>	No Information Available
<b>Chronic Exposure</b>	No Information Available
<b>Name of Toxicological Synergistic Products</b>	No Information Available

<b>SECTION XII: Ecological Information</b>	
<b>Ecological Information</b>	Not Available

<b>SECTION XIII: Disposal Considerations</b>	
<b>Waste Disposal Method</b>	Dispose of waste material at an approved (hazardous) waste treatment / disposal facility in accordance with applicable local, provincial and federal regulations. Do not dispose of waste with normal garbage, or into sewer systems.

<b>SECTION XIV: Transportation Information</b>	
<b>Proper Shipping Name</b>	Not Dangerous Goods/Hazardous
<b>Class</b>	Not Applicable
<b>TDG/HAZMAT Label</b>	No
<b>UN Number (PIN)</b>	Not Applicable
<b>TDG Placard</b>	No
<b>Packing Group</b>	Not Applicable
<b>Emergency Response Guide Number</b>	Not Registered
<b>Emergency Telephone</b>	CHEMTREC 1-800-424-9300

<b>SECTION XV: Regulatory Information</b>			
<b>WHMIS Classification</b>	<b>Class</b> NA	<b>Division</b> NA	<b>Subdivision</b> NA
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR			

<b>SECTION XVI: Other</b>	
<b>Other Information</b>	New product 03/19/2010

The information contained herein is offered only as a guide to the handling of this specific product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied. Calfrac Well Services Ltd.

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