

DRILLING FLUIDS

MUDTECH LABORATORIES INC.

5310 Milwee • Houston, Texas 77092 PH: 713-683-9716 Fax: 713-682-8147



CLIENTE: Thuslick, Inc.

PRODUCTO: Thuslick

TIPO de PRODUCTO: Lubricante

REQUERIDO POR: Luis Lopez

FECHA de REPORTE: 10 de enero de 2006

REPORTE #: PMX17720

METODO DE PRUEBA: EPA/600/16-9/003/FEB-91/LC50.

COMPOSICION DE LODO:

<u>ADITIVOS</u>	<u>CONCENTRACIONES</u>
Bentonite	20.0 ppb
Barite	178.5 ppb
Caustic Soda	2.0 ppb
Lignosulfonate	5.0 ppb
Lignite	5.0 ppb
PAC	0.5 ppb
Rev Dust	50.0 ppb
Thuslick	5.0 ppb

Fresh/Salt water Ratio 1/1

RESULTADO DE TOXICIDAD: Metodo: EPA Probit

LC50: > 1,000,000 ppm

95% Limites de la Confianza: NA ppm to NA ppm

INFORMACION DEL TOXICIDAD:

<u>CONCENTRACION</u> <u>(ppm SPP)</u>	<u>Numero</u> <u>Expuesto</u>	<u>Numero</u> <u>Muerto</u>	<u>Adjuste</u>
Sea Water Control	60	0	0
10,000	60	0	0
30,000	60	1	1
100,000	60	4	4
300,000	60	13	13
1,000,000	60	44	44

TOXICIDAD De La REFERENCIA: Sodium Dodecyl Sulfate

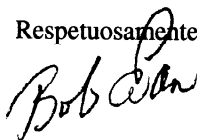
LC50: 8.60 ppm

95% Limites de la Confianza: 6.65 ppm to 10.77 ppm

FECHA DE PRUEBA: 2 de enero 2006 a 6 de enero de 2006

COMENTARIOS: El producto, Thuslick, pasa la prueba de EPA/600/16-9/003/FEB-91/LC50.


Respetuosamente;



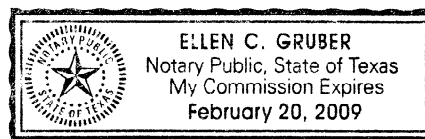
Bob Evans
Director

COUNTY OF HARRIS
STATE OF TEXAS

BEFORE, ME, on this day, personally appeared Bob Evans, known to me to be the person whose name is subscribed to the foregoing instrument. GIVEN UNDER BY HAND AND SEAL OF OFFICE, this 10th day of January, 2006.



Notary Public, Harris County, Texas



This analysis, opinion or interpretation is based on material supplied by the client to whom, and for whose exclusive and confidential use this report is made. Mudtech Laboratories, Inc. and its officers assume no responsibility and make no warranty for proper operation of any petroleum, oil, gas, or any other material in connection with which this report is used.


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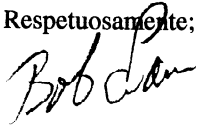
REPORTE #: PMX17719

METODO DE PRUEBA: NORMA MEXICANA: "*Exploración del Petroleo - Lubricantes de Carga Maxima Empleados en Fluidos de Perforación, Terminación, y Mantenimiento de Pozos Petroleros - Especificaciones y Métodos de Prueba*": NMX-L-160-SCFI-2004

PARAMETROS	RESULTAS	ESPECIFICACIONES	Métodos de Prueba
PROPIEDADES REOLOGICAS:			
- Δ Punto de Cedencia,Pa	0	0 maximo	véase 8.1
- Δ de Gel a Diez Minutos,Pa	0	3.36 maximo	
PRUEBA de PRESION EXTREMA:			
- REDUCCION del Torque,%	69.9	68.0 minimo	véase 8.2
- Δ Poder Lubricante,kg/cm ²	483	340.0 minimo	

COMENTARIOS: El producto, **Thuslick**, pasa las especificaciones.

Respetuosamente;



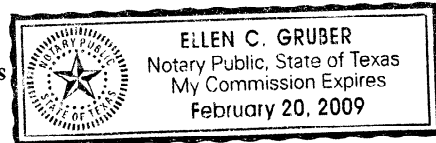
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REQUERIDO POR: Luis Lopez

FECHA de REPORTE: 10 de enero de 2006

REPORTE #: PMX17722

METODO DE PRUEBA: Mudtech Laboratories, Inc.: "Norma de Calidad para el Biodegradabilidad de Productos Empleada en Fluidos de Perforacion";11/97.

CONCEPTO	RESULTA	ESPECIFICACIONES
Biodegradabilidad,%	21.3	20.0 minimo

COMENTARIOS: El producto, **Thuslick**, pasa las especificaciones.

Respetuosamente;



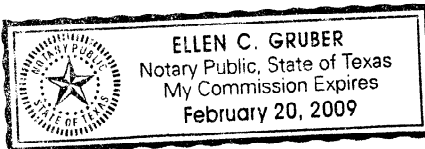
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FECHA de REPORTE: 10 de enero de 2006

REQUERIDO POR: Luis Lopez

REPORTE #: PMX17721

METODO DE PRUEBA: CRETIB (NOM-052-ECOL/1993)

PRUEBA	CONDICIONES DE PRUEBA	OBSERVACIONES	
CORROSIVIDAD	DETERMINACION DE pH	NA	
	pH (< 2 Y > 12.5 CORROSIVO)	NEGATIVO	
	VELOCIDAD DE CORROSION, mm/ANO	NA	
REACTIVIDAD	VELOCIDAD DE CORROSION, mm ANO (> 6.35 CORROSIVO)	NEGATIVO	
	A 25°C Y 1 ATMOSFERA SE COMBINA O POLOMERIZA	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-AGUA) DE 5:1	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-AGUA) DE 5:3	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-AGUA) DE 5:5	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-HCl 1.0 N) DE 5:1	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-HCl 1.0 N) DE 5:3	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-HCl 1.0 N) DE 5:5	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-NaOH 1.0 N) DE 5:1	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-NaOH 1.0 N) DE 5:3	NEGATIVO	
	A 25°C Y 1 ATMOSFERA (RESIDUO-NaOH 1.0 N) DE 5:5	NEGATIVO	
	GASES, VAPORES O HUMOS EN CONDICIONES DE pH 2.0	NEGATIVO	
	GASES, VAPORES O HUMOS EN CONDICIONES DE pH 4.0	NEGATIVO	
	GASES, VAPORES O HUMOS EN CONDICIONES DE pH 7.0	NEGATIVO	
	GASES, VAPORES O HUMOS EN CONDICIONES DE pH 9.5	NEGATIVO	
	GASES, VAPORES O HUMOS EN CONDICIONES DE pH 12.5	NEGATIVO	
	ES CAPAZ DE PRODUCIR RADICALES LIBRES	NEGATIVO	
	EXPLOSIVIDAD	CTE. DE EXPLOSIVIDAD ≥ AI DINITROBENCENO	NEGATIVO
		A 25°C Y 1.03 Kg/cm ² DE PRESION SUFRE REACCION EXPLOSIVA	NEGATIVO
	TOXICIDAD	EXCEDE LOS LIMITES DE LAS TABLAS 5, 6, Y 7 DE LA NORMA	NEGATIVO
INFLAMABILIDAD	EN SLN ACUOSA CONTIENE > 24% DE ALCOHOL EN VOLUMEN	NEGATIVO	
	PUNTO DE INFLAMACION, °C	NA	
	SI ES LIQUIDO (PUNTO DE INFLAMACION < 60°C, INFLAMABLE	NEGATIVO	
	NO ES LIQUIDO Y PROVOCA FUEGO POR FRICCION	NEGATIVO	
	NO ES LIQ. Y PROVOCA FUEGO POR ABSORCION DE HUMEDAD	NEGATIVO	
	A 25°C Y 1.03 Kg/cm ² SUFRE CAMBIOS QUIM. ESPONTANEOS	NEGATIVO	
	SON GASES U OXIDANTES ESTIMULANTES DE LA COMBUSTION	NEGATIVO	
		NEGATIVO	
BIOLOGICO INFECCIOSAS	CONTENIDO DE BACTERIAS COLIFORMES TOTALES/gr	AUSENTES	
	CONTENIDO DE BACTERIAS COLIFORMES FECALES/gr	AUSENTES	
	RIESGO BIOLOGICO INFECCIOSO	NEGATIVO	

COMENTARIOS: El producto, **Thuslick**, pasa las condiciones.

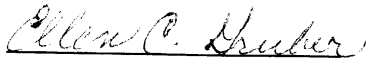
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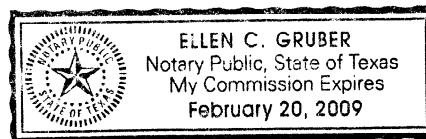


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