SAFETY DATA SHEET

Soltex® E Additive

DRILLING SPECIALTIES COMPANY

A DIVISION OF CHEVRON PHILLIPS CHEMICAL COMPANY LP

Version 2.2

Revision Date 2016-12-06

SECTION 1: Identification of the substance/mixture and of the company/undertaking						
Product information						
	Soltex® E Additive 1110476					
Use :	Drilling Mud Additive					
Company :	Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380					
Emergency telephone:						
Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Responsible Department : Product Safety and Toxicology Group E-mail address : SDS@CPChem.com Website : www.CPChem.com						
SECTION 2: Hazards identification						
	mixture accordance with the hazard communication standard 29 CFR ain all the information as required by the standard. Combustible dust					
Labeling						
Signal Word :	Warning					
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Hazard Statements	: May form combustible dust concentrations in air.			
Carcinogenicity:				
IARC	No ingredient of this product present at levels greater than or			
NTP	equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.			
	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			
CTION 3: Composition/info	mation on ingredients			
Synonyms	: DRILLING MUD ADDITIVE Shale Inhibitor			
Molecular formula	: UVCB			
Component	CAS-No. Weight %			
Acid modified petroleum res				
General advice If inhaled	 No hazards which require special first aid measures. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 			
In case of eye contact	 advice. If symptoms persist, call a physician. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist. 			
If swallowed	: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.			
CTION 5: Firefighting meas	ures			
Flash point	: Not applicable			
Autoignition temperature	: No data available			
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.			
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
	: Provide appropriate exhaust ventilation at places where dust is formed.			
Fire and explosion protection				

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	me	asures
Personal precautions	:	Avoid dust formation.
Environmental precautions	:	If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
CTION 7: Handling and stora	ge	
Handling		
Advice on opto bondling		
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Advice on sale handling Advice on protection against fire and explosion	-	
Advice on protection	-	drinking should be prohibited in the application area. Provide appropriate exhaust ventilation at places where dust is
Advice on protection against fire and explosion	:	drinking should be prohibited in the application area. Provide appropriate exhaust ventilation at places where dust is

SECTION 8: Exposure controls/personal protection

Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection	:	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hand protection	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time
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		which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	:	Eye wash bottle with pure water. Safety glasses.
Skin and body protection	:	Wear as appropriate:. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Lightweight protective clothing.
Hygiene measures	:	General industrial hygiene practice.
For additional details, see th	e Ex	posure Scenario in the Annex portion
CTION 9: Physical and chem	nical	properties
Information on basic phys	ical	and chemical properties
Appearance	loui	
Form		Powder
Physical state		Solid
Color		Dark Brown, Black
Odor Odor Threshold		No odor Not applicable
		ποι αρμιταύτε
Safety data		
Flash point	:	Not applicable
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Autoignition temperature	:	No data available
Thermal decomposition		: No data available
Molecular formula	:	UVCB
рН	:	7 - 10
Boiling point/boiling range	:	Not applicable
Vapor pressure	:	Not applicable
Relative density	:	Not applicable
Density	:	1.54 g/cm3
Water solubility	:	Partly soluble
Partition coefficient: n- octanol/water	:	No data available
Viscosity, kinematic	:	No data available
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Relative vapor density	: Not applicable
CTION 10: Stability and react	ivity
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous rea	ictions
Conditions to avoid	: No data available.
Thermal decomposition	: No data available
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological info	rmation
Soltex® E Additive Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat Sex: male and female
Soltex® E Additive Acute inhalation toxicity	: LC50: > 5.3 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: dust/mist Method: OECD Test Guideline 403 Rats exposed to a 5.3 mg/L dust aerosol for 4-hr resulted in effects generally expected with high concentrations of dust aerosols made of relatively dense particles. Higher lung weight and atelectasis persisted after the 14-day recovery period. There were no reports of lethality or any significant clinical observations. There was however an acute inflammatory response with evidence of recovery after 14- days. The presence of particulate matter with indication of partial clearance from the lung after the 14-day recovery period was noted. These effects would not be expected during normal operating conditions when using this substance.
Soltex® E Additive Acute dermal toxicity	: No data available
Soltex® E Additive Skin irritation	: No skin irritation
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Soltex® E Additive Eye irritation	: No eye irritation
Soltex® E Additive Sensitization	: Did not cause sensitization on laboratory animals.
Soltex® E Additive Repeated dose toxicity	 Species: Rat, male and female Sex: male and female Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Exposure time: 43 - 54 D Number of exposures: daily NOEL: 1,000 mg/kg Method: OECD Guideline 422
Soltex® E Additive Reproductive toxicity	: Species: Rat Sex: male and female Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Exposure time: 43-54 D Number of exposures: daily Method: OECD Guideline 422 NOAEL Parent: 1,000 mg/kg NOAEL F1: 1,000 mg/kg
Soltex® E Additive Developmental Toxicity	: Species: Rat Application Route: oral gavage Dose: 0, 250, 500, 1000 mg/kg Number of exposures: daily Test period: 54 D NOAEL Teratogenicity: 1,000 mg/kg NOAEL Maternal: 1,000 mg/kg
Toxicology Assessment	
Soltex® E Additive CMR effects	 Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.
TION 12: Ecological informa	tion
CTION 12: Ecological information of the second s	
Ecotoxicity effects	
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Toxicity to fish	 LC50: > 240 mg/l Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrate	: LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2
Toxicity to algae	 EbC50: 240 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae) static test Method: ISO 10253
	ErC50: 390 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae) static test Method: ISO 10253
Elimination information (per	sistence and degradability)
Biodegradability	: 3 % Testing period: 28 d Method: Closed Bottle test According to the results of tests of biodegradability this product is not readily biodegradable.
Ecotoxicology Assessme	nt
Additional ecological information	: This material is not expected to be harmful to aquatic organisms.
TION 13: Disposal conside	erations
The information in this SDS	pertains only to the product as shipped.
Use material for its intended may meet the criteria of a h other State and local regula regulated components may	d purpose or recycle if possible. This material, if it must be discarded, azardous waste as defined by US EPA under RCRA (40 CFR 261) or tions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is raste, federal law requires disposal at a licensed hazardous waste
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.
For additional details, see the	ne Exposure Scenario in the Annex portion
TION 14: Transport inform	ation
	s shown here are for bulk shipments only, and may not apply to ckages (see regulatory definition).
Consult the appropriate don	nestic or international mode-specific and quantity-specific Dangerous

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etc.) Therefore, the informa	ional shipping description requirements (e.g., technical name or names, tion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
	DEPARTMENT OF TRANSPORTATION) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	NAL MARITIME DANGEROUS GOODS) A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	R TRANSPORT ASSOCIATION) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	ANGEROUS GOODS BY ROAD (EUROPE)) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
DANGEROUS GOODS (EU	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS	MENT CONCERNING THE INTERNATIONAL CARRIAGE BY INLAND WATERWAYS) HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory inforr	nation
National legislation	
SARA 311/312 Hazards	: Fire Hazard
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.
SARA 302 Reportable	: This material does not contain any components with a SARA
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Quantity	302 RQ.
SARA 302 Threshold Planning Quantity	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.
SARA 313 Ingredients	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Air Act	
Potential Class	roduct neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR lbpt. A, App.A + B).
This product does not contain Act Section 112 (40 CFR 61)	n any hazardous air pollutants (HAP), as defined by the U.S. Clean A).
	n any chemicals listed under the U.S. Clean Air Act Section 112(r) for on (40 CFR 68.130, Subpart F).
This product does not contain Intermediate or Final VOC's	n any chemicals listed under the U.S. Clean Air Act Section 111 SOC (40 CFR 60.489).
US State Regulations	
Pennsylvania Right To Know	 No components are subject to the Pennsylvania Right to Know Act.
California Prop. 65 Ingredients	: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
Other Registrations Regulation Danish PR number:	Registration number 2318865
Notification status	: This mixture contains only ingredients which have been
Europe REACH	

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		registered according to Regulation (EU) No. 1907/2006 (REACH).			
United States of America (USA) TSCA	:	On TSCÁ Inventory			
Canada DSL	:	All components of this product are on the Canadian DSL			
Australia AICS	:	On the inventory, or in compliance with the inventory			
New Zealand NZIoC	:	Not in compliance with the inventory			
Japan ENCS	:	On the inventory, or in compliance with the inventory			
Korea KECI	:	On the inventory, or in compliance with the inventory			
Philippines PICCS	:	On the inventory, or in compliance with the inventory			
China IECSC	:	On the inventory, or in compliance with the inventory			

SECTION 16: Other information

NFPA Classification	: Health Hazard: 1	
	Fire Hazard: 2	
	Reactivity Hazard: 0	
	, ,	

Further information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupatio Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substan
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic

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	Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		