SAFETY DATA SHEET

Version 3.0

Soltex® Potassium Additive

SECTION 1. Identification of the s	ubstance/mixture and of the company/undertaking
	ubstance/mixture and of the company/undertaking
Product information	
Product Name : Material :	Soltex® Potassium Additive 1016796
Use :	Drilling Mud Additive
Company :	Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
EUROPE: BIG +32.14.5845	al)
	Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
SECTION 2: Hazards identification	1
	mixture accordance with the hazard communication standard 29 CFR ain all the information as required by the standard.
Emergency Overview	
Danger Form: Powder Physical stat OSHA Hazards :	t e : Solid Color : Black Odor : No odor Combustible dust, Carcinogen, Delayed target organ effects
SDS Number:100000067902	1/13
505 Number, 10000007902	1/15



Itex® Potassium Ad	ditive		SAFETY DATA SHE
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Classification	Carc Spec	bustible dust inogenicity, Category ific target organ syste gory 1, Inhalation, Lu	emic toxicity - repeated exposure,
Labeling			
Symbol(s)			
Signal Word	: Dang	jer	
Hazard Statements	H3 H3	50: May cause cance	to organs (Lungs) through prolonged o
Precautionary Statements	: Prev P261 P281	0	ust. tective equipment as required.
Potential Health Effects			
Physical Hazards	conce	entrations in air and the eratures may generate	y form combustible dust hermal processing at elevated e simple hydrocarbons and carbon
Carcinogenicity:			
IARC	Group	1: Carcinogenic to hu	umans
		lline Silica	14808-60-7
NTP		to be human carcino	ogen 14808-60-7
ACGIH	•	lline Silica cted human carcinog	
		lline Silica	14808-60-7
CTION 3: Composition/infor	mation or	ingredients	
Synonyms		ng Mud Additive	
Molecular formula	: Mixtu	Ire	
Component		CAS-No.	Weight %
Acid modified petroleum res	iduum	Proprietary	70
Crystalline Silica		14808-60-7	0.5 - 1.5
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ECTION 4: First aid measures		
General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.
If inhaled	:	If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Induce vomiting immediately and call a physician. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
ECTION 5: Firefighting measu	roe	
Lonion of thenghing measu		
Flash point	:	Not applicable
Autoignition temperature	:	Not applicable
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
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.
Fire and explosion protection	:	Avoid dust formation. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.
Hazardous decomposition products	:	Carbon oxides. Sulfur oxides.
CTION 6: Accidental release	me	asures
Personal precautions	:	Use personal protective equipment. Avoid dust formation. Avoid breathing dust.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
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Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.
Additional advice	:	Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
TION 7: Handling and stor	age	
Handling		
Advice on safe handling	:	Avoid formation of respirable particles. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient.
Advice on protection against fire and explosion	:	Avoid dust formation. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.
Storage		
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the

SECTION 8: Exposure controls/personal protection

s					
Ingredients		Basis	Value	Control parameters	Note
Crystalline Sili	ca	ACGIH	TWA	0.025 mg/m3	lung cancer, pulm fibrosis, A2, Respirab fraction
		OSHA Z-3	TWA	30mg/m3 / %SiO2+2	total dust
		OSHA Z-3	TWA	250mppcf / %SiO2+5	a, b, respirable
		OSHA Z-3	TWA	10mg/m3 / %SiO2+2	e, respirable
		OSHA Z-1-A	TWA	0.1 mg/m3	Respirable fraction
		OSHA Z-3	TWA	0.1 mg/m3	Respirable fraction
		OSHA Z-1-A	TWA	0.1 mg/m3	respirable dust fraction
		ACGIH	TWA	0.025 mg/m3	lung cancer, pulm fibrosis, A2, Respirab fraction
		OSHA Z-1	TWA	0.05 mg/m3	Respirable fraction
A2 b	Suspected human ca The percentage of cry which other methods Both concentration ar	rstalline silica in the formul have been shown to be ap ad percent quartz for the ap	a is the amount deter plicable. pplication of this limit	mined from airborne samples, exce are to be determined from the fracti y sphere): 2; Percent passing select	on passing a size-select

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diameter (unit density sphere): 2,5; Percent passing selector: 75 Aerodynamic diameter (unit density sphere): 3,5; Percent passing selector: 50 Aerodynamic diameter (unit density sphere): 5,0; Percent passing selector: 25 Aerodynamic diameter (unit density sphere): 10; Percent passing selector: 0 The measurements under this note refer to the use of an AEC (now NRC) instrument. The respirable fraction of coal dust is determined with an MRE; the figure corresponding to that of 2.4 mg/m3 in the table for coal dust is 4.5 mg/m3. Lung cancer

lung cancer Lung cancer pulm fibrosis Pulmonary fibrosis

Immediately Dangerous to Life or Health Concentrations (IDLH)

Substance name	CAS-No.	Control parameters	Update
Crystalline Silica	14808-60-7	Immediately Dangerous to Life or Health Concentration Value 50 mg/m ³	1995-03-01
		Immediately Dangerous to Life or Health Concentration Value 50 mg/m ³	1995-03-01

Engineering measures

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits. 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 Hand 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. 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 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	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Protective suit. Safety shoes.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
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CTION 9: Physical and chem	ical properties
Information on basic phys	ical and chemical properties
Appearance	
Form Physical state Color Odor Odor Threshold	 Powder Solid Black No odor No data available
Safety data	
Flash point	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: Not applicable
Thermal decomposition	: No data available
Molecular formula	: Mixture
Molecular weight	: No data available
рН	: Not applicable
Pour point	: Not applicable
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: Not applicable
Density	: 1.59 g/cm3
Water solubility	: Partly soluble
Partition coefficient: n- octanol/water	: No data available
Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable

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TION 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	ctions
Conditions to avoid	: Generation of Dusts.
Thermal decomposition	: No data available
Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
TION 11: Toxicological info	rmation
Acute oral toxicity	
Acid modified petroleum residuum	 LD50: > 5,000 mg/kg Information given is based on data obtained from similar substances.
Acute inhalation toxicity	
Acid modified petroleum residuum	 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 Information given is based on data obtained from similar substances.
Acute dermal toxicity	
Acid modified petroleum residuum	: No data available
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Acid modified petroleum residuum	: No skin irritation Information given is based on data obtained from similar substances.
Eye irritation Acid modified petroleum residuum	: No eye irritation Information given is based on data obtained from similar substances.
Sensitization	
Acid modified petroleum residuum	: Did not cause sensitization on laboratory animals. Information given is based on data obtained from similar substances.
Repeated dose toxicity	
Acid modified petroleum residuum	 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 Information given is based on data obtained from similar substances.
Reproductive toxicity	
Acid modified petroleum residuum	 Species: Rat Sex: male and female 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 Information given is based on data obtained from similar substances.
Developmental Toxicity	
Acid modified petroleum residuum	 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
CMR effects	
Crystalline Silica	: Carcinogenicity: Human carcinogen.
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sion 3.0 Revision Date 2016 Further information : No data available. FITON 12: Ecological information Toxicity to fish Acid modified petroleum : LC50: > 240 mg/l Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances. Toxicity to daphnia and other aquatic invertebrates Acid modified petroleum : LC50: 380 mg/l Exposure time: 48 h Species: Acarita tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2 Toxicity to algae Acid modified petroleum : EC50: 240 mg/l residuum : EC50: 240 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae) static test Method: ISO TC147/SC5/WG2 Elimination information (persistence and degradability) Biodegradability : This material is not expected to be readily biodegradable. Ectoxicology Assessment Additional ecological : This material is not expected to be harmful to aquatic information in this SDS pertains only to the product as shipped. Use material for its intended purpose or recycle if possible. This material, if it must be discard may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261 other State and local regulations. Measurement of certain physical properties and analysis fo regulated components may be necessary to make a correct determination.	tex® Potassium Ad	laitive
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Use material for its intended purpose or recycle if possible. This material, if it must be discard may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261 other State and local regulations. Measurement of certain physical properties and analysis fo	TION 13: Disposal conside	rations
Use material for its intended purpose or recycle if possible. This material, if it must be discard may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261 other State and local regulations. Measurement of certain physical properties and analysis fo	The information in this SDS	pertains only to the product as shipped.
classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.	Use material for its intended may meet the criteria of a ha other State and local regulat regulated components may l classified as a hazardous wa	purpose or recycle if possible. This material, if it must be discarded, izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is
Product : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used containe Send to a licensed waste management company.	Product	ponds, waterways or ditches with chemical or used container.
Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.	Contaminated packaging	

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SECTION 14: Transport information

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The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).
Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.
US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF
DANGEROUS GOODS (EUROPE))
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE
OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory information
National legislation
SARA 311/312 Hazards : Fire Hazard Chronic Health Hazard

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known CAS numb reporting levels e Clean Air Act Ozone-Depletion : This product neither contain	established by SARA Title III, Section 313. ns, nor was manufactured with a Class I or the U.S. Clean Air Act Section 602 (40 CFR
SARA 313 Ingredients : This material doe known CAS numb reporting levels e	established by SARA Title III, Section 313.
SARA 313 Ingredients : This material doe known CAS numb	stanlished by SARA Litle III Section 212
Quantity 304 EH3 KQ.	es not contain any chemical components with bers that exceed the threshold (De Minimis)
Planning Quantityrequirements of SSARA 304 Reportable: This material doe	SARA Title III, Section 302.
Quantity 302 RQ.	es not contain any components with a SARA this material are subject to the reporting

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California Pro Ingredients	p. 65 :	WARNING! This pr State of California t		a chemical known in the
Canada DSL Australia AIC New Zealand Japan ENCS Korea KECI Philippines Pl China IECSC	CH of America TSCA S NZIoC ICCS	 On the involution This produin the Canadian On the involution Not in complete 	entory, or in con ct contains one adian NDSL. entory, or in con entory, or in con entory, or in con entory, or in con pliance with the	npliance with the inventory or several components listed npliance with the inventory npliance with the inventory npliance with the inventory npliance with the inventory inventory npliance with the inventory
CTION 16: Othe	er information			
NFPA Classif	ication :	Health Hazard: 1 Fire Hazard: 2 Reactivity Hazard:	0	2
Further inform		59360		
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Soltex® Potassium Additive

SAFETY DATA SHEET

Version 3.0

			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 Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
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%		