## SAFETY DATA SHEET



## Soltex® Additive

Version 2.19

Revision Date 2021-10-07

according to GB/T 16483 and GB/T 17519

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information		
Product Name Material	-	Soltex® Additive 1126278, 1016807
Use		Drilling Mud Additive
	•	
Company	:	Chevron Phillips Chemical Company LP Drilling Specialties Company LLC 10001 Six Pines Drive The Woodlands, TX 77380
Local	:	See Company Address
Emergency telephone:		
EUROPE: BIG +32.14.5 Mexico CHEMTREC 01-	tional 300 or 312 9 <sup>2</sup> 8454 -800-6 tec In	) r 703.527.3887(int'l) 186 1132) China: 0532 8388 9090 5 (phone) or +32.14583516 (telefax) 681-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Responsible Department E-mail address Website	:	Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
ECTION 2: Hazards identifica	ition	
Classification of the subs GHS Classification and La (GHS 2011)		e or mixture ng: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29
Emergency Overview		
Emergency Overview Danger		
	state	e: solid <b>Color</b> : Black <b>Odor</b> : no odor

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Hazards	: May cause car	ncer by inhalation.	
Classification			
	: Carcinogen	icity, Category 1A, Inhala	tion
Labeling			
Symbol(s)			
Signal Word	: Danger		
Hazard Statements	: H350: May	cause cancer by inhalatic	on.
Precautionary Statements	P202: Do read and ur P280: We protection/ f <b>Response:</b>	ain special instructions be not handle until all safety iderstood. ar protective gloves/ prote ace protection. 3: IF exposed or conce	precautions have been
	-	cose of contents/ contain	er to an approved waste
CTION 3: Composition/infor	P501: Dis disposal pla	oose of contents/ contain nt.	er to an approved waste
CTION 3: Composition/infor Synonyms	P501: Dis disposal pla	pose of contents/ contain nt. ents	er to an approved waste
•	P501: Dis disposal pla	pose of contents/ contain nt. ents	er to an approved waste
Synonyms Molecular formula Chemical name	P501: Dis disposal pla mation on ingredi : Drilling Mud A : Mixture	ents AS-No. / EINECS-No.	Concentration [wt%]
Synonyms Molecular formula Chemical name Asphalt, Sulfonated, Sodiur	P501: Dis disposal pla mation on ingredi : Drilling Mud A : Mixture CA n Salt 68	ents AS-No. / EINECS-No.	Concentration [wt%] 40 - 70
Synonyms Molecular formula Chemical name	P501: Dis disposal pla mation on ingredi : Drilling Mud A : Mixture CA n Salt 68 77	ents AS-No. / EINECS-No.	Concentration [wt%]
Synonyms Molecular formula Chemical name Asphalt, Sulfonated, Sodiun Sodium Sulfate	P501: Dis disposal pla mation on ingredi : Drilling Mud A : Mixture CA n Salt 68 77 14	ents AS-No. / EINECS-No. 201-32-1 57-82-6	Concentration [wt%] 40 - 70 10 - 25
Synonyms Molecular formula Chemical name Asphalt, Sulfonated, Sodiur Sodium Sulfate Crystalline Silica	P501: Dis disposal pla mation on ingredi : Drilling Mud A : Mixture CA n Salt 68 77 14 : Move out of d	ents AS-No. / EINECS-No. 201-32-1 57-82-6	Concentration [wt%] 40 - 70 10 - 25 0.1 - 2.5
Synonyms Molecular formula Chemical name Asphalt, Sulfonated, Sodiun Sodium Sulfate Crystalline Silica	P501: Dis disposal pla mation on ingredi : Drilling Mud A : Mixture CA n Salt 68 77 14 : Move out of d sheet to the d : If unconsciou	ents AS-No. / EINECS-No. 201-32-1 57-82-6 808-60-7 angerous area. Show th	Concentration [wt%] 40 - 70 10 - 25 0.1 - 2.5 is material safety data ion and seek medical

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In case of eye contact	:	
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital. Induce vomiting immediately and call a physician. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
CTION 5: Firefighting measu	res	
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.
Methods for cleaning up	:	Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
Additional advice	:	Dust deposits should not be allowed to accumulate on
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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).

#### SECTION 7: Handling and storage

#### 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. Avoid dust formation. Avoid generating dust; fine dust Advice on protection : against fire and explosion 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. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Use	:	Drilling Mud Additive

#### SECTION 8: Exposure controls/personal protection

#### Ingredients with workplace control parameters

CN

Components	Basis	Value	Control parameters	Note
Crystalline Silica	CN OEL	PC-TWA	0.7 mg/m3	G1, Respirable
	CN OEL	PC-TWA	1 mg/m3	G1, Total
	CN OEL	PC-TWA	0.2 mg/m3	G1, Respirable
	CN OEL	PC-TWA	0.5 mg/m3	G1, Total
	CN OEL	PC-TWA	0.3 mg/m3	G1, Respirable
	CN OEL	PC-TWA	0.7 mg/m3	G1, Total
	CN OEL	PC-TWA	0.5 mg/m3	G1, Total dust
	CN OEL	PC-TWA	0.2 mg/m3	G1, (respirable dust)
	CN OEL	PC-TWA	0.7 mg/m3	G1, Total dust
	CN OEL	PC-TWA	0.3 mg/m3	G1, (respirable dust)
	CN OEL	PC-TWA	1 mg/m3	G1, Total dust
	CN OFI	PC-TWA	0.7 mg/m3	G1. (respirable dust)

G1 G1 - Carcinogenic to humans

#### **Engineering measures**

Adequate ventilation to control airborned concentrations below the exposure guidelines/limits.

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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, aerosolization, 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 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.

#### **SECTION 9: Physical and chemical properties**

Information on basic phy	vsical and chemical properties
Appearance	
Form Physical state Color Odor Odor Threshold	<ul> <li>Powder</li> <li>solid</li> <li>Black</li> <li>no odor</li> <li>Not applicable</li> </ul>
Safety data	
Flash point	: Not applicable
Lower explosion limit	: No data available
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Upper explosion limit	: No data available	
Oxidizing properties	: No	
Autoignition temperature	: Not applicable	
Molecular formula	: Mixture	
Molecular weight	: No data available	
рН	: 7-10	
Pour point	: Not applicable	
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	: Not applicable	
Relative vapor density	: Not applicable	
Evaporation rate	: Not applicable	

## SECTION 10: Stability and reactivity

Reactivity	: Stable at normal ambient temperature and pressure.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous re	actions
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.
	Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: Generation of Dusts.
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Materials to avoid Hazardous decomposition products	<ul> <li>No data available.</li> <li>Carbon oxides Sulfur oxides</li> </ul>
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	mation
Acute oral toxicity	
Asphalt, Sulfonated, Sodium	: LD50: > 5,000 mg/kg
Salt Sodium Sulfate	LD50 Oral: >2000 milligram per kilogram Species: Rat Sex: female Method: OECD Test Guideline 423 Test substance: yes
Acute inhalation toxicity	
Asphalt, Sulfonated, Sodium Salt	: 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.
Sodium Sulfate	LC50: >2400milligram per cubic meterExposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	
Asphalt, Sulfonated, Sodium Salt	: No data available
Sodium Sulfate	: > 4,000 mg/kg Species: Rabbit
Skin irritation	
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Asphalt, Sulfonated, Sodium Salt Sodium Sulfate	:	No skin irritation largely based on animal evidence. No skin irritation
<b>Eye irritation</b> Asphalt, Sulfonated, Sodium Salt Sodium Sulfate	:	No eye irritation largely based on animal evidence.
Sensitization		
Asphalt, Sulfonated, Sodium Salt Sodium Sulfate	:	Did not cause sensitization on laboratory animals. largely based on animal evidence. Did not cause sensitization on laboratory animals.
Repeated dose toxicity		
Asphalt, Sulfonated, Sodium Salt	:	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
Genotoxicity in vitro		
Asphalt, Sulfonated, Sodium Salt	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
		Test Type: In vitro mammalian cell gene mutation test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
		Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
Reproductive toxicity		
Asphalt, Sulfonated, Sodium Salt	:	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
Developmental Toxicity		
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Asphalt, Sulfonated, Sodium Salt	:	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		
Asphalt, Sulfonated, Sodium Salt	:	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.
Crystalline Silica		Carcinogenicity: Human carcinogen.
Soltex® Additive Further information	:	Chronic Health Hazard.
Ecotoxicity effects Toxicity to fish		
Toxicity to fish Asphalt, Sulfonated, Sodium	:	LC50: > 240 mg/l
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 fish Asphalt, Sulfonated, Sodium	:	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder)
<b>Toxicity to fish</b> Asphalt, Sulfonated, Sodium Salt		Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 13,500 - 14,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to fish Asphalt, Sulfonated, Sodium Salt Sodium Sulfate	er a	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 13,500 - 14,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow)
Toxicity to fish Asphalt, Sulfonated, Sodium Salt Sodium Sulfate Toxicity to daphnia and othe Asphalt, Sulfonated, Sodium	er a	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 13,500 - 14,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) quatic invertebrates LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod)
Toxicity to fish Asphalt, Sulfonated, Sodium Salt Sodium Sulfate Toxicity to daphnia and othe Asphalt, Sulfonated, Sodium Salt	er a	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 13,500 - 14,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) quatic invertebrates LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2 4,547 mg/l Exposure time: 96 h
Toxicity to fish Asphalt, Sulfonated, Sodium Salt Sodium Sulfate Asphalt, Sulfonated, Sodium Salt Sodium Sulfate	er a :	Exposure time: 96 h Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203 13,500 - 14,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) quatic invertebrates LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2 4,547 mg/l Exposure time: 96 h

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<b>Biodogradability</b>						
Biodegradability	: This material is not expected to be readily biodegradable.					
Elimination information (persistence and degradability)						
Bioaccumulation	: No data available					
Mobility	: No data available					
Results of PBT assessment Asphalt, Sulfonated, Sodium Salt Additional ecological information	<ul> <li>Non-classified PBT substance, Non-classified vPvB substance</li> <li>This material is not expected to be harmful to aquatic organisms.</li> </ul>					
	organishis.					
Ecotoxicology Assessment Short-term (acute) aquatic hazard	<ul> <li>This material is not expected to be harmful to aquatic organisms.</li> </ul>					
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.					
Use material for its intended p	ertains only to the product as shipped. ourpose or recycle if possible. This material, if it must be discarded,					
The information in this SDS p Use material for its intended p may meet the criteria of a haz other State and local regulation regulated components may be	ertains only to the product as shipped.					
The information in this SDS p Use material for its intended p may meet the criteria of a haz other State and local regulation regulated components may be classified as a hazardous was disposal facility.	pertains only to the product as shipped. Durpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or Dons. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste					
The information in this SDS p Use material for its intended p may meet the criteria of a haz other State and local regulation regulated components may be classified as a hazardous was disposal facility.	<ul> <li>bertains only to the product as shipped.</li> <li>bourpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste</li> <li>Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.</li> </ul>					
The information in this SDS p Use material for its intended p may meet the criteria of a haz other State and local regulation regulated components may be classified as a hazardous was disposal facility. Product	<ul> <li>bertains only to the product as shipped.</li> <li>burpose or recycle if possible. This material, if it must be discarded, zardous waste as defined by US EPA under RCRA (40 CFR 261) or ons. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste</li> <li>Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.</li> <li>Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.</li> </ul>					

## US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

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### Soltex<sup>®</sup> Additive Version 2.19 Revision Date 2021-10-07 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 Remarks the IBC Code Maritime transport in bulk according to IMO instruments **SECTION 15: Regulatory information Notification status** Europe REACH A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances. On the inventory, or in compliance with the inventory Switzerland CH INV On or in compliance with the active portion of the United States of America (USA) TSCA **TSCA** inventory Canada DSL All components of this product are on the Canadian : DSL Australia AICS All substances are listed on AIIC. Obligations to 2 provide information to AICIS apply. New Zealand NZIoC On the inventory, or in compliance with the inventory 5 On the inventory, or in compliance with the inventory Japan ENCS 5 Korea KECI A substance(s) in this product was not registered,

notified to be registered, or exempted from registration by CPChem according to K-REACH regulations.

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	Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS China IECSC Taiwan TCSI	<ul> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>Not in compliance with the inventory</li> </ul>
Other regulations	<ul> <li>Law on Prevention and Control of Environment Pollution by Solid Waste, Regulation on the Safety Management of Hazardous Chemicals, Provisions on the Safe Use of Chemicals at Workplace, Rules for Classification and Labelling of Chemicals (GB 30000), Law on the Prevention and Control of Occupational Diseases</li> </ul>
SECTION 16: Other informatio	n

#### **Further information**

Legacy SDS Number : 59370

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

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.

	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effe
	Substances		Level
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency
	List		
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupatio
	Substances List		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 Concentrat
EGEST	EOSCA Generic Exposure	OSHA	Occupational Safety & Health
	Scenario Tool		Administration
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit
	Chemicals Association		-
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of
	Chemical Substances		Commercial Chemical Substan
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov

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			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%		