# SAFETY DATA SHEET



## Soltex® Additive

Version 4.8

Revision Date 2021-10-07

SECTION 1: Identification of t	the sul	bstance/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
Emergency telephone:		
EUROPE: BIG +32.14. Mexico CHEMTREC 01	ational) 0300 or 612 91 584545 1-800-6 otec Ins	) 703.527.3887(int'l) 86 1132) China: 0532 8388 9090 5 (phone) or +32.14583516 (telefax)
Responsible Department E-mail address Website	:	Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
<b>SECTION 2: Hazards identific</b>	ation	
	ssified	e or mixture in accordance with the hazard communication standard 29 CFR contain all the information as required by the standard.
Classification	:	Combustible dust Carcinogenicity, Category 1A, Inhalation
Labeling		
SDS Number:100000013416		1/13

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Symbol(s)			
Signal Word	: Dange	r	
Hazard Statements	•	form combustible du ): May cause cancer	st concentrations in air.
Precautionary Statements	: Prever P261 P280 protect	Avoid breathing du	st. oves/ protective clothing/ eye
Potential Health Effects			
Physical Hazards	concent	trations in air and the	form combustible dust ermal processing at elevated simple hydrocarbons and carbon
Carcinogenicity:			
IARC	-	Carcinogenic to hur	
	Crystallir	ne Silica	14808-60-7
NTP	Known to	o be human carcinog	
NTP	Known to Crystallir	o be human carcinog	
NTP CTION 3: Composition/info	Crystallir	o be human carcinog ne Silica	gen
	Crystallir rmation on i	o be human carcinog ne Silica	gen
CTION 3: Composition/info Synonyms	Crystallir rmation on i : Drilling	o be human carcinog ne Silica ngredients Mud Additive	gen
CTION 3: Composition/info	Crystallir rmation on i	o be human carcinog ne Silica ngredients Mud Additive	gen
CTION 3: Composition/info Synonyms Molecular formula	Crystallir rmation on i : Drilling	o be human carcinog ne Silica ngredients Mud Additive	gen 14808-60-7
CTION 3: Composition/info Synonyms Molecular formula Component Acid modified petroleum res	Crystallir rmation on i : Drilling : Mixture	o be human carcinog ne Silica ngredients Mud Additive e CAS-No. Proprietary	gen 14808-60-7 Weight % 40 - 70
CTION 3: Composition/info Synonyms Molecular formula Component	Crystallir rmation on i : Drilling : Mixture	o be human carcinog ne Silica ngredients Mud Additive	gen 14808-60-7 Weight %
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CTION 3: Composition/info Synonyms Molecular formula Component Acid modified petroleum res Crystalline Silica	Crystallir rmation on i : Drilling : Mixture siduum s : Move o	o be human carcinog ne Silica ngredients Mud Additive e CAS-No. Proprietary 14808-60-7	gen 14808-60-7 Weight % 40 - 70 0.1 - 2.5 a. Show this material safety data
CTION 3: Composition/info Synonyms Molecular formula Component Acid modified petroleum res Crystalline Silica	Crystallir rmation on i : Drilling : Mixture siduum siduum siduum : Move o sheet t : If unco	be human carcinog ne Silica ngredients Mud Additive CAS-No. Proprietary 14808-60-7	a. Show this material safety data dance.
CTION 3: Composition/info Synonyms Molecular formula Component Acid modified petroleum res Crystalline Silica CTION 4: First aid measure General advice	Crystallir rmation on i I Drilling I Mixture siduum S I I I I I I I I I I I I I I I I I I	be human carcinog ne Silica	a. Show this material safety data dance.
CTION 3: Composition/info Synonyms Molecular formula Component Acid modified petroleum res Crystalline Silica CTION 4: First aid measure General advice If inhaled	Crystallin rmation on i : Drilling : Mixture siduum s : Move o sheet t : If unco advice : Flush e lenses rinsing : Keep r	be human carcinog ne Silica	a. Show this material safety data dance.

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		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 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).
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#### **SECTION 7: Handling and storage**

#### Handling

Advice on safe handling :	vap befo be p acc Eleo con bon	id formation of respirable particles. Do not breathe ors/dust. Avoid exposure - obtain special instructions ore use. Avoid contact with skin and eyes. For personal ection see section 8. Smoking, eating and drinking should prohibited in the application area. Dispose of rinse water in ordance with local and national regulations. ctrostatic charge may accumulate and create a hazardous dition when handling this material. To minimize this hazard, ding and grounding may be necessary, but may not by nselves be sufficient.
Advice on protection : against fire and explosion	disp pres	id dust formation. Avoid generating dust; fine dust bersed in air in sufficient concentrations, and in the sence of an ignition source is a potential dust explosion ard. Provide appropriate exhaust ventilation at places

#### 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

where dust is formed.

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

#### Ingredients with workplace control parameters

US

Components	Basis	Value	Control parameters	Note
Crystalline Silica	OSHA Z-3	TWA	250mppcf / %SiO2+5	respirable
•	OSHA Z-3	TWA	10mg/m3 / %SiO2+2	respirable
	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	A2, Respirable particulate matter
	OSHA Z-1	TWA	0.05 mg/m3	Respirable fraction
	OSHA Z-1	TWA	0.05 mg/m3	(respirable dust)
	OSHA CARC	PEL	0.05 mg/m3	respirable

A2 Suspected human carcinogen

#### **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

: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to

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	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 ma occur, such as:. Air-Purifying Respirator for Dusts and Miste P100. Use a positive pressure, air-supplying respirator if the is potential for uncontrolled release, aerosolization, exposur 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 tim which are provided by the supplier of the gloves. Also take i 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 the 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 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.
	Wash hands before bleaks and at the end of workday.
TION 9: Physical and cher	
-	
-	ical properties
Information on basic phys Appearance Form	ical properties ical and chemical properties : Powder
Information on basic phys Appearance Form Physical state	ical properties ical and chemical properties : Powder : solid
Information on basic phys Appearance Form Physical state Color	ical properties ical and chemical properties : Powder : solid : Black
Information on basic phys Appearance Form Physical state	ical properties ical and chemical properties : Powder : solid
Information on basic phys Appearance Form Physical state Color Odor Odor Odor Threshold	ical properties ical and chemical properties : Powder : solid : Black : no odor
Information on basic phys Appearance Form Physical state Color Odor	ical properties ical and chemical properties : Powder : solid : Black : no odor
Information on basic phys Appearance Form Physical state Color Odor Odor Odor Threshold Safety data	ical properties ical and chemical properties : Powder : solid : Black : no odor : Not applicable
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point	ical properties ical and chemical properties : Powder : solid : Black : no odor : Not applicable : Not applicable
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit	ical properties ical and chemical properties : Powder : solid : Black : no odor : Not applicable : Not applicable : No data available
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit	ical properties ical and chemical properties : Powder : solid : Black : no odor : Not applicable : Not applicable : No data available : No data available
Information on basic phys Appearance Form Physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties	ical properties ical and chemical properties : Powder : solid : Black : no odor : Not applicable : Not applicable : No data available : No data available : No
Information on basic physical state Color Odor Odor Threshold Safety data Flash point Lower explosion limit Upper explosion limit Oxidizing properties Autoignition temperature	ical properties ical and chemical properties : Powder : solid : Black : no odor : Not applicable : Not applicable : No data available : No data available : No : Not applicable

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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-	: No data available
octanol/water Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: Not applicable
Reactivity	: Stable at normal ambient temperature and pressure.
Reactivity Chemical stability	<ul> <li>Stable at normal ambient temperature and pressure.</li> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> </ul>
	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Chemical stability Possibility of hazardous rea	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> <li>Actions</li> <li>Hazardous reactions: Hazardous polymerization does not</li> </ul>
Chemical stability Possibility of hazardous rea	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> <li>Actions</li> <li>Hazardous reactions: Hazardous polymerization does not occur.</li> <li>Further information: No decomposition if stored and applied as</li> </ul>
Chemical stability Possibility of hazardous rea Hazardous reactions	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> <li>Actions</li> <li>Hazardous reactions: Hazardous polymerization does not occur.</li> <li>Further information: No decomposition if stored and applied as directed.</li> </ul>
Chemical stability Possibility of hazardous rea Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> <li>Actions</li> <li>Hazardous reactions: Hazardous polymerization does not occur.</li> <li>Further information: No decomposition if stored and applied as directed.</li> <li>Generation of Dusts.</li> <li>No data available.</li> <li>Carbon oxides</li> </ul>
Chemical stability Possibility of hazardous rea Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> <li>Actions</li> <li>Hazardous reactions: Hazardous polymerization does not occur.</li> <li>Further information: No decomposition if stored and applied as directed.</li> <li>Generation of Dusts.</li> <li>No data available.</li> <li>Carbon oxides Sulfur oxides</li> <li>No decomposition if stored and applied as directed.</li> </ul>
Chemical stability Possibility of hazardous rea Hazardous reactions Conditions to avoid Materials to avoid Hazardous decomposition products Other data	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> <li>Actions</li> <li>Hazardous reactions: Hazardous polymerization does not occur.</li> <li>Further information: No decomposition if stored and applied as directed.</li> <li>Generation of Dusts.</li> <li>No data available.</li> <li>Carbon oxides Sulfur oxides</li> <li>No decomposition if stored and applied as directed.</li> </ul>

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Acid modified petroleum residuum	: LD50: > 5,000 mg/kg
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.
Acute dermal toxicity	
Acid modified petroleum residuum	: No data available
Skin irritation	
Acid modified petroleum residuum	: No skin irritation largely based on animal evidence.
Eye irritation Acid modified petroleum residuum	: No eye irritation largely based on animal evidence.
Sensitization	
Acid modified petroleum residuum	: Did not cause sensitization on laboratory animals. largely based on animal evidence.
Repeated dose toxicity	
Acid modified petroleum residuum	<ul> <li>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</li> </ul>
Genotoxicity in vitro	
Acid modified petroleum residuum	<ul> <li>Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative</li> </ul>
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	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	
Acid modified petroleum residuum	: 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	
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	
Acid modified petroleum residuum	<ul> <li>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.</li> </ul>
Crystalline Silica	Carcinogenicity: Human carcinogen.
Soltex® Additive Further information	: Chronic Health Hazard.
TION 12: Ecological inform	ation
Ecotoxicity effects Toxicity to fish	
Acid modified petroleum residuum	: LC50: > 240 mg/l Exposure time: 96 h
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	Species: Scophthalmus maximus (Flatfish, Flounder) semi-static test Method: OECD Test Guideline 203
Toxicity to daphnia and othe	er aquatic invertebrates
Acid modified petroleum residuum	: LC50: 380 mg/l Exposure time: 48 h Species: Acartia tonsa (Marine Copepod) static test Method: ISO TC147/SC5/WG2
Toxicity to algae	
Acid modified petroleum residuum	: EC50: 240 mg/l Exposure time: 72 h Species: Skeletonema costatum (Marine Algae) static test Method: ISO 10253
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (persis	stence and degradability)
Bioaccumulation	: No data available
Mobility	: No data available
Results of PBT assessment Acid modified petroleum residuum 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>
Ecotoxicology Assessment	
Short-term (acute) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
Long-term (chronic) aquatic hazard	: This material is not expected to be harmful to aquatic organisms.
TION 13: Disposal considera	ations
The information in this SDS p	ertains only to the product as shipped.
may meet the criteria of a haz other State and local regulatic regulated components may be	burpose or recycle if possible. This material, if it must be discarded ardous waste as defined by US EPA under RCRA (40 CFR 261) of ons. Measurement of certain physical properties and analysis for a necessary to make a correct determination. If this material is ste, federal law requires disposal at a licensed hazardous waste
Product	: 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.
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Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.
ECTION 14: Transport informa	ation
	shown here are for bulk shipments only, and may not apply to kages (see regulatory definition).
Goods Regulations for additiet.) Therefore, the informat	estic or international mode-specific and quantity-specific Dangerous onal shipping description requirements (e.g., technical name or names ion shown here, may not always agree with the bill of lading shipping Flashpoints for the material may vary slightly between the SDS and the
	<b>DEPARTMENT OF TRANSPORTATION)</b> HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	I <b>AL MARITIME DANGEROUS GOODS)</b> HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	<b>R TRANSPORT ASSOCIATION)</b> HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
	<b>NGEROUS GOODS BY ROAD (EUROPE))</b> HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR THIS AGENCY.
DANGEROUS GOODS (EU	HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR
OF DANGEROUS GOODS I	HAZARDOUS MATERIAL ÓR DANGEROUS GOODS FOR
Remarks	: Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Maritime transport in bulk	according to IMO instruments
ECTION 15: Regulatory inform	nation
National legislation	10/12
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SARA 311/312 Hazards	: Combustible dust Carcinogenicity
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.
SARA 302 Threshold Planning Quantity	: This material does not contain any components with a section 302 EHS TPQ.
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.
SARA 313 Components	: 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.
Potential Class	product 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 ubpt. A, App.A + B).
	in any hazardous air pollutants (HAP), as defined by the U.S. Clean Air
	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 contai Intermediate or Final VOC's	in any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI (40 CFR 60.489).
US State Regulations	
Pennsylvania Right To Knov	
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	: Acid modified petroleum residuum - Proprietary Crystalline Silica - 14808-60-7
California Prop. 65 Components	: WARNING! This product contains a chemical known in the State of California to cause cancer. Crystalline Silica 14808-60-7
<b>Notification status</b> 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
Switzerland CH INV United States of America (US TSCA Canada DSL Australia AICS	<ul> <li>quantity of the non-regulated substances.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>All components of this product are on the Canadian DSL</li> <li>All substances are listed on AIIC. Obligations to provide information to AICIS apply.</li> </ul>
New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. 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).</li> </ul>
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>
ECTION 16: Other information	
NFPA Classification	: Health Hazard: 1 Fire Hazard: 2 Reactivity Hazard: 0
Further information	$\vee$
Legacy SDS Number	: 59370
Significant changes since the previous versions.	last version are highlighted in the margin. This version replaces all

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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.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level	
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency	
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational 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 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%			