

# MATERIAL SAFETY DATA SHEET



## Soltex® Additive

Version 3.4

Revision Date 2013-02-13

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

#### Product information

Trade name : Soltex® Additive  
Material : 1079530, 1016807

#### EC-No.Registration number

Chemical Name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Asphalt, Sulfonated, Sodium Salt	68201-32-1 269-212-0	Chevron Phillips Chemicals International NV 01-2119510713-49-0000
Sodium Lignite	68131-04-4 268-608-0	Chevron Phillips Chemicals International NV Pre-registered

**Company** : Drilling Specialties Company  
10001 Six Pines Drive  
The Woodlands, TX 77380

**Local** : Chevron Phillips Chemicals International N.V.  
Brusselsesteenweg 355  
B-3090 Overijse  
Belgium

MSDS Requests: (800) 852-5530  
Technical Information: (832) 813-4862  
Responsible Party: Product Safety Group  
Email:msds@cpchem.com

#### Emergency telephone:

##### Health:

866.442.9628 (North America)  
1.832.813.4984 (International)

##### Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887  
Asia: +800 CHEMCALL (+800 2436 2255)  
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

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Responsible Department : Product Safety and Toxicology Group  
 E-mail address : MSDS@CPChem.com  
 Website : www.CPChem.com


**SECTION 2: Hazards identification****Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Carcinogenicity , Category 1A H350i:  
 May cause cancer by inhalation.

**Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

**Label elements****Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H350i May cause cancer by inhalation.

Precautionary Statements : **Prevention:**  
 P281 Use personal protective equipment as required.  
 P261 Avoid breathing dust.

Hazardous ingredients which must be listed on the label:

- 14808-60-7 Crystalline Silica

**Additional Labeling:**

Restricted to professional users.  
 Restricted to professional users.

**SECTION 3: Composition/information on ingredients**

Synonyms : Drilling Mud Additive

Molecular formula : Mixture

**Mixtures****Hazardous ingredients**

Chemical Name	CAS-No. EC-No. Index No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Crystalline Silica	14808-60-7		Carc. 1A; H350i	0,1 - 1

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238-878-4

STOT RE 1; H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures**

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended.
- 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 : If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Keep respiratory tract clear. Never give anything by mouth to an unconscious person.

**SECTION 5: Firefighting measures**

- Flash point : Not applicable
- Autoignition temperature : Not applicable
- Unsuitable extinguishing media : High volume water jet.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting 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. Provide appropriate exhaust ventilation at places where dust is formed.
- Hazardous decomposition products : Carbon oxides. Sulfur oxides.

**SECTION 6: Accidental release measures**

- 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 : Keep in suitable, closed containers for disposal.

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**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.

Advice on protection against fire and explosion : Avoid dust formation. 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. Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place.

**SECTION 8: Exposure controls/personal protection****Ingredients with workplace control parameters****SK**

Súčasť	Podstata	Hodnota	Kontrolné parametre	Poznámka
Crystalline Silica	SK OEL	TSH	0,1 mg/m <sup>3</sup>	1, Merané ako respirabilná frakcia
	SK OEL	NPEL priemerný	0,1 mg/m <sup>3</sup>	TSH, 4, 3, Tabuľka č. 2, 11, 1, 5, respirabilná frakcia

- 1 Za fibrogénny sa považuje nerozpustný pevný aerosól, vrátane kvapiek aerosólu, ktorý obsahuje viac ako 1 % fibrogénnej zložky a v pokuse na zvierati vykazuje zreteľnú fibrogénnu reakciu pľúcneho tkaniva. Ak je v aerosóle obsiahnutá fibrogénna zložka, musí sa stanoviť vždy jeho respirabilná frakcia a koncentrácia fibrogénnej zložky. V prípade, že aerosól obsahuje menej než 1 % SiO<sub>2</sub> a neobsahuje azbest, považuje sa za aerosól s prevažne nešpecifickým účinkom
- 11 Pre pevné aerosóly, ktoré sú zároveň klasifikované ako karcinogény alebo mutagény kategórie 1 a kategórie 2, sa stanovujú technické smerné hodnoty (TSH). Definíciu TSH upravuje nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení nariadenia vlády Slovenskej republiky č. 301/2007 Z. z. Požiadavky na meranie a hodnotenie azbestu upravuje nariadenie vlády Slovenskej republiky č. 253/2006 Z. z. o ochrane zamestnancov pred rizikami súvisiacimi s expozíciou azbestu pri práci.
- 3 Respirabilná frakcia je váhový podiel častíc pevného aerosólu ≤ 5 μm odobraného vo vzorke ovzdušia v dýchacej zóne zamestnanca. Spôsob a techniku odberu, stanovenie koncentrácie polietavého prachu v respirabilnej a inhalovateľnej frakcii v pracovnom ovzduší podľa prijatej Johannesburgskej konvencie upravuje STN EN 481. Stratégiu merania, výber vhodného postupu a spracovanie výsledkov upravuje STN EN 482 a STN EN 689.
- 4 Fr je obsah fibrogénnej zložky v percentách v respirabilnej frakcii. Fibrogénna zložka - kremeň, kristobalit, tridymit, gama - oxid hlinitý.
- 5 Kremeň, kristobalit, tridymit, gama-oxid hlinitý je 100 % fibrogénnej zložky.
- Tabuľka č. 2  
TSH Technické Smerné Hodnoty

**SI**

Komponente	Osnova	Vrednost	Parametri nadzora	Pripomba
Crystalline Silica	SI OEL	MV	0,15 mg/m <sup>3</sup>	Y, Alveolarna frakcija - del vdihnjene suspendirane snovi, ki doseže alveole

Y Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT vrednosti.

**SE**

Beständsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Crystalline Silica	SE AFS	NGV	0,1 mg/m <sup>3</sup>	II.b, M, Respirabelt

II.b Se sidan 57 anmärkning II: Med respirabelt damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft. - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.11 och som har en provtagningsskäraktäristik enligt punkt 5.3.

M Medicinsk kontroll kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen gäller kraven på medicinsk kontroll endast när ämnet används som hårdplastkomponent. Se föreskrifterna om hårdplaster.

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**PT**

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Crystalline Silica	PT OEL	VLE-MP	0,025 mg/m3	A2, Fracção respirável

A2 Agente carcinogénico suspeito no Homem

**PL**

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Crystalline Silica	PL NDS	NDS	4 mg/m3	1, całkowity
	PL NDS	NDS	1 mg/m3	2, respirabilny
	PL NDS	NDS	2 mg/m3	1, całkowity
	PL NDS	NDS	0,3 mg/m3	2, respirabilny

1 Pył całkowity - zbiór wszystkich cząstek otoczonych powietrzem w określonej objętości powietrza.

2 Pył respirabilny - zbiór cząstek przechodzących przez selektor wstępny o charakterystyce przepuszczalności według wymiarów cząstek opisanej logarytmiczno-normalną funkcją prawdopodobieństwa ze średnią wartością średnicy aerodynamicznej 3,5  $\mu$ m i z geometrycznym odchyleniem standardowym 1,5  $\pm$  0,1.**NO**

Komponenter	Grunnlag	Verdi	Kontrollparametere	Nota
Crystalline Silica	NO OEL	TWA	0,1 mg/m3	5, K, respirabelt støv
	NO OEL	TWA	0,3 mg/m3	5, K, totalstøv

5 Støv som inneholder alfa-kvarts, kristoballit og / eller tridymitt vurderes ut fra summasjonformel. Samtidig må normene for sjenerende støv overholdes

K Stoffer som skal betraktes som kreftfremkallende

**NL**

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Crystalline Silica	NL MAC	TGG-8 uur	0,075vezels per cm3	B1, Respirabel

B1 Kankerverwekkende stoffen, vastgesteld op basis van het drempelwaarde-effect

**LV**

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Sodium Sulfate	LV OEL	AER 8 st	10 mg/m3	
Crystalline Silica	LV OEL	AER 8 st	1 mg/m3	

**LT**

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Sodium Sulfate	LT OEL	IPRD	10 mg/m3	
Crystalline Silica	LT OEL	IPRD	0,1 mg/m3	Alveolinė

**HU**

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Crystalline Silica	HU OEL	AK-érték	0,15 mg/m3	respirabilis por

**GB**

Ingredients	Basis	Value	Control parameters	Note
Crystalline Silica	GB EH40	TWA	0,1 mg/m3	15, 44, 45, 46, 47, 2, Respirable
	GB EH40	TWA	6 mg/m3	15, 44, 45, 46, 47, 2, Inhalable
	GB EH40	TWA	2,4 mg/m3	15, 44, 45, 46, 47, 2, Respirable

15 For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

2 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used

44 The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit.

45 Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'.

46 Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3.

47 Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with.

**FR**

Composants	Base	Valeur	Paramètres de contrôle	Note
Crystalline Silica	FR VLE	VME	0,1 mg/m3	zwart/vet, Fraction alvéolaire

zwart/vet Valeurs limites réglementaires contraignantes

**FI**

Aineosat	Peruste	Arvo	Valvontaa koskevat	Huomautus

MSDS Number:10000013416

5/11

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			muuttujat	
Crystalline Silica	FI OEL	HTP-arvot 8h	0,2 mg/m3	2, alveolijae
	FI OEL	HTP-arvot 8h	0,05 mg/m3	2, alveolijae

2 Valtioneuvoston päätös räjäytys- ja louhintatyön järjestysohjeista [410/1986]

**ES**

Componentes	Base	Valor	Parámetros de control	Nota
Crystalline Silica	ES VLA	VLA-ED	0,1 mg/m3	d, n, y, fracción respirable

d Véase UNE EN 481: Atmosferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles.

n En trabajos de minería véase la Orden ITC 2585/2007, de 30 de agosto (BOE nº 315 de 7 de septiembre de 2007), por la que se aprueba la Instrucción Técnica Complementaria 2.0.02 del Reglamento General de Normas Básicas de Seguridad Minera.

y Reclassificado, por la International Agency for Research on Cancer (IARC) de grupo 2A (probablemente carcinogénico en humanos) a grupo 1 (carcinogénico en humanos).

**EE**

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Crystalline Silica	EE OEL	Piirnorm	0,1 mg/m3	1, Peentolm

1 Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse

**DK**

Komponenter	Basis	Værdi	Kontrolparametre	Note
Crystalline Silica	DK OEL	GV	0,3 mg/m3	total
	DK OEL	GV	0,1 mg/m3	K, respirabel

K Betyder, at stoffet er optaget på listen over stoffer, der anses for at være kræftfremkaldende.

**CZ**

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Crystalline Silica	CZ OEL	PEL	0,1 mg/m3	Fr, respirabilní frakce

Fr Fr = obsah fibrogenní složky v respirabilní frakci v procentech

**CH**

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Crystalline Silica	CH SUVA	MAK-wert	0,15 mg/m3	P, Carc.Cat.1, C, alveolengängiger Staub

C Eine Schädigung der Leibesfrucht braucht bei Einhaltung des MAK-Wertes nicht befürchtet zu werden.

Carc.Cat.1 Krebserzeugende Stoffe Kategorie 1

P Provisorische Festlegung - Die MAK-Werte für diese Substanzen sind aus verschiedenen Gründen noch nicht definitiv festgelegt.

**BE**

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Crystalline Silica	BE OEL	TGG 8 hr	0,1 mg/m3	inadempbaar

**AT**

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Crystalline Silica	AT OEL	Jahres-Miw	0,15 mg/m3	alveolengängiger Anteil

**Engineering measures**

Adequate ventilation to control airborne 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 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: Full-Face Supplied-Air Respirator. Use a positive pressure, air-supplying respirator if there is potential

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	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 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. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the 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 physical and chemical properties****Appearance**

Physical state	: Solid
Color	: Black
Odor	: No odor

**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
Molecular formula	: Mixture
Molecular Weight	: No data available
pH	: Not applicable
Pour point	: Not applicable
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: 1,2 - 1,5
Water solubility	: Partly soluble

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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**

Chemical stability : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Possibility of hazardous reactions**

Conditions to avoid	:	Not applicable.
Thermal decomposition	:	No data available
Other data	:	No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

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**Further information** : Chronic Health Hazard.

**SECTION 12: Ecological information**

Elimination information (persistence and degradability)

Biodegradability	:	This material is not expected to be readily biodegradable.
Additional ecological information	:	This material is not expected to be harmful to aquatic organisms.

There is no data available for this product.

**SECTION 13: Disposal considerations**

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

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate



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ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.  
Do not re-use empty containers.  
Empty remaining contents.

**SECTION 14: Transport information**

**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 MSDS 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.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**SECTION 15: Regulatory information****National legislation**

**Major Accident Hazard Legislation** : 96/82/EC Update: 2003  
Directive 96/82/EC does not apply

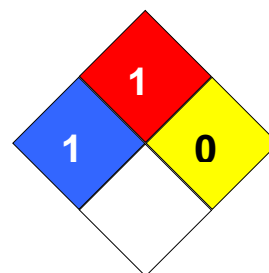
**Water contaminating class (Germany)** : WGK 1 slightly water endangering

**Notification status**

Europe REACH : On the inventory, or in compliance with the inventory  
 United States of America US.TSCA : On the inventory, or in compliance with the inventory  
 Canada DSL : On the inventory, or in compliance with the inventory  
 Australia AICS : On the inventory, or in compliance with the inventory  
 New Zealand NZIoC : On the inventory, or 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: 1  
Reactivity Hazard: 0

**Further information**

Legacy MSDS Number : 59370

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

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

The information provided in this Material 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

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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%		

**Full text of H-Statements referred to under sections 2 and 3.**

H350i May cause cancer by inhalation.  
 H372 Causes damage to organs through prolonged or repeated exposure if inhaled.