

**Drill-Well™ D325 OBM Fluid Loss Additive**

Version 1.0

Revision Date 2017-05-24

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product information**

Product Name : Drill-Well™ D325 OBM Fluid Loss Additive
Material : 1117913

EC-No.Registration number

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
1-Octadecene	112-88-9 204-012-9	Chevron Phillips Chemical Company LP 01-2119474213-44-0001
Styrene	100-42-5 202-851-5 601-026-00-0	Chevron Phillips Chemicals International NV 01-2119457861-32-0005
1,3-Butadiene	106-99-0 203-450-8 601-013-00-X	Chevron Phillips Chemicals International NV 01-2119471988-16-0004

Company : Chevron Phillips Chemical Company LP
Drilling Specialties Company LLC
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vincilaan 19
1831 Diegem
Belgium

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

Emergency telephone:

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

Health:

866.442.9628 (North America)

1.832.813.4984 (International)

Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132)

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

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

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

Carcinogenicity, Category 1A

H350i:

May cause cancer by inhalation.

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

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H350i

May cause cancer by inhalation.

Precautionary Statements

: **Prevention:**

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

Storage:

P405

Store locked up.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

- 14808-60-7 Crystalline Silica

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

SECTION 3: Composition/information on ingredients

Synonyms : None Established

Molecular formula : Mixture

Mixtures**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Calcium Carbonate	471-34-1 207-439-9		50
Crystalline Silica	14808-60-7 238-878-4	Carc. 1A; H350 STOT RE 1; H372	0,1 - 1

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.

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 : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point : Not applicable

Autoignition temperature : No data available

Unsuitable extinguishing media : High volume water jet.

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 : Avoid dust formation. Provide appropriate exhaust ventilation

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

protection at places where dust is formed.

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.

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.

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

Zložka	Podstata	Hodnota	Kontrolné parametre	Poznámka
Crystalline Silica	SK OEL	TSH	0,1 mg/m ³	1A, Merané ako respirabilná frakcia
	SK OEL	NPEL priemerný	0,1 mg/m ³	TSH, 4, 3, Tabuľka č. 2, 11, 1, 5, respirabilná frakcia
	SK OEL	NPEL priemerný	0,1 mg/m ³	TSH, 4, 3, Tabuľka č. 2, 11, 1, 5, Pevný aerosol, 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 % SiO₂ a neobsahuje azbest, považuje sa za aerosól s prevažne nešpecifickým účinkom
- 11 Pre pevné aerosóly, ktoré sú zároveň klasifikované ako karcinogénny alebo mutagénny kategórie 1A a kategórie 1B, 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.
- 1A Kategória 1A - Dokázaný karcinogén pre ľudí
- 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 poľetavého 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.

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

Tabul'ka č. 2 pevné aerosóly s prevažne fibrogénnym účinkom
TSH Technické Smerné Hodnoty

SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Calcium Carbonate	SI OEL	MV	500.000vl/m3	Prah
Crystalline Silica	SI OEL	MV	0,15 mg/m3	A, Y, Alveolarna frakcija

A 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

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Calcium Carbonate	SE AFS	NGV	10 mg/m3	2, Inhalerbart
	SE AFS	NGV	5 mg/m3	2, Respirabelt
	SE AFS	NGV	10 mg/m3	2, 16, inhalabelt damm
	SE AFS	NGV	5 mg/m3	2, 16, (respirabelt damm)
Crystalline Silica	SE AFS	NGV	0,1 mg/m3	2, C, M, Respirabelt
	SE AFS	NGV	0,1 mg/m3	2, C, M, (respirabelt damm)

16 För damm eller dimma av ämnena som har särskilda gränsvärden tillämpas dessa värden.

2 Med inhalerbart damm menas den dammfraction som definieras i svensk standard SS-EN 481, Arbetsplatsluft - Partikelstorleksfraktioner för mätning av luftburna partiklar, Utgåva 1, 1993, punkt 2.3 och som har en provtagningskaraktäristik enligt punkt 5.1. 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 provtagningskaraktäristik enligt punkt 5.3. Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetsarkivstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod.

C Ämnet är cancerframkallande.

M Medicinska kontroller kan krävas för hantering av ämnet. Se vidare föreskrifterna om medicinska kontroller i arbetslivet. För vissa ämnen ska arbetsgivaren erbjuda läkarundersökning och för andra ämnen gäller krav på periodisk läkarundersökning och tjänstbarhetsbedömning. Se föreskrifterna om kemiska arbetsmiljörisker.

RO

Componente	Bază	Valoare	Parametri de control	Notă
Crystalline Silica	RO OEL	TWA	0,1 mg/m3	fracțiunea de praf respirabilă

PT

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

A2 Agente carcinogénico suspeito no Homem.

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Calcium Carbonate	PL NDS	NDS	10 mg/m3	15, Pył
	PL NDS	NDS	10 mg/m3	frakcja wdychalna, 15, (frakcja wdychana)
Crystalline Silica	PL NDS	NDS	1 mg/m3	Frakcja respirabilna, frakcja respirabilna
	PL NDS	NDS	0,3 mg/m3	Frakcja respirabilna, frakcja respirabilna
	PL NDS	NDS	4 mg/m3	frakcja wdychalna, (frakcja wdychana)
	PL NDS	NDS	2 mg/m3	frakcja wdychalna, (frakcja wdychana)

15 Pył całkowity zawierający wolną krystaliczną krzemionkę poniżej 2%.

Frakcja respirabilna - frakcja aerozolu wnika do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.

Frakcja wdychalna - frakcja aerozolu wnika przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.

NO

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Crystalline Silica	FOR-2011-12-06-1358	TWA	0,1 mg/m3	7, K, respirabelt støv
	FOR-2011-12-06-1358	TWA	0,3 mg/m3	7, K, totalstøv

7 Støv som inneholder α-kvarts, kristoballitt og/eller tridymitt vurderes ut fra summasjonsformel. Samtidig må verdiene for sjenerende støv overholdes.

K Stoffer som skal betraktes som kreftfremkallende

NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Crystalline Silica	NL WG	TGG-8 uur	0,075vezels per cm3	B1, Respirabel
	NL WG	TGG-8 uur	0,075vezels per cm3	B1, (respirabel stof)

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

SDS Number:100000102836

5/13

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

МК

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Crystalline Silica	МК OEL	MV	0,15 mg/m3	Y, A, Alveolar fraction

- A Alveolar fraction - the part of the inhaled suspended material that reaches the alveoli
 Y Substances without teratogenic effects when respecting limit values and bat values.

LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Calcium Carbonate	LV OEL	AER 8 st	6 mg/m3	

LT

Komponentai	Pagrindas, bazē	Vertē	Kontrolēs parametri	Pastaba
Crystalline Silica	LT OEL	IPRD	0,1 mg/m3	Alveolinē

IS

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Crystalline Silica	IS OEL	TWA	0,3 mg/m3	Total
	IS OEL	TWA	0,1 mg/m3	Respirable
	IS OEL	TWA	0,1 mg/m3	(støv som kan innåndes)
	IS OEL	TWA	0,3 mg/m3	Totalt støv

IE

Ingredients	Basis	Value	Control parameters	Note
Crystalline Silica	IE OEL	OELV - 8 hrs (TWA)	0,1 mg/m3	respirable
	IE OEL	OELV - 8 hrs (TWA)	0,1 mg/m3	(respirable dust)

HU

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

HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Crystalline Silica	HR OEL	GVI	0,1 mg/m3	

GB

Ingredients	Basis	Value	Control parameters	Note
Calcium Carbonate	GB EH40	TWA	10 mg/m3	15, 44, 45, 46, 47, 2, Inhalable
	GB EH40	TWA	4 mg/m3	15, 44, 45, 46, 47, 2, Respirable
	GB EH40	TWA	10 mg/m3	15, 44, 45, 46, 47, 2, inhalable dust
	GB EH40	TWA	4 mg/m3	15, 44, 45, 46, 47, 2, (respirable dust)
Crystalline Silica	GB EH40	TWA	0,1 mg/m3	15, 44, 45, 46, 47, 2, Respirable
	GB EH40	TWA	0,1 mg/m3	15, 44, 45, 46, 47, 2, (respirable dust)

- 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
Calcium Carbonate	FR VLE	VME	10 mg/m3	normal,
Crystalline Silica	FR VLE	VME	0,1 mg/m3	noir, Fraction de poussière alvéolaire

noir Valeurs limites réglementaires contraignantes
 normal Valeurs limites indicatives

FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
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SDS Number:100000102836

6/13

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

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

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

ES

Componentes	Base	Valor	Parámetros de control	Nota
Crystalline Silica	ES VLA	VLA-ED	0,05 mg/m3	d, n, y, fracción respirable

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

n En las industrias extractivas 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 Reclasificado, 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
	EE OEL	Piirnorm	0,1 mg/m3	1, Peentolm

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

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Crystalline Silica	DK OEL	GV	0,1 mg/m3	K, (respirabelt støv)
	DK OEL	GV	0,3 mg/m3	Totalt støv

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, vlákno, respirabilní frakce

Fr Fr = obsah fibrogenní složky v respirabilní frakci v procentech

CY

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Crystalline Silica	CY OEL 2	M.E.Σ.	10mg/m3 / % respirable quartz	

CH

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Calcium Carbonate	CH SUVA	MAK-Wert	3 mg/m3	s. Anhang 1.8.2, NIOSH, alveolengängiger Staub
Crystalline Silica	CH SUVA	MAK-Wert	0,15 mg/m3	P, Carc.Cat.1, NIOSH, OSHA, HSE, SSC, alveolengängiger Staub

Carc.Cat.1 Krebserzeugende Stoffe Kategorie 1

HSE Health and Safety Executive (Occupational Medicine and Hygiene Laboratory)

NIOSH National Institute for Occupational Safety and Health

OSHA Occupational Safety and Health Administration

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

s. Anhang 1.8.2 Inerte Stäube, allgemeiner Staubgrenzwert; als inert werden solche Stäube bezeichnet, die nach heutigen Kenntnissen weder resorbiert werden, noch die Lunge zur vermehrten Bildung von Bindegewebe anregen (fibrogene Wirkung), und die keine spezifischen Krankheitserscheinungen hervorrufen. Da solche Stäube die Funktion der Atmungsorgane durch mechanische Reizung beeinträchtigen können, gilt hier ein MAK-Wert von 3 mg/m3 für alveolengängigen Staub, gemessen nach EN 481, sowie von 10 mg/m3 für einatembaren Staub.

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

BG

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Crystalline Silica	BG OEL	TWA	0,07 mg/m3	Респирабилна

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Crystalline Silica	BE OEL	TGG 8 hr	0,1 mg/m3	inadembedaar
	BE OEL	TGG 8 hr	0,1 mg/m3	(respirabel stof)

AT

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Crystalline Silica	AT OEL	TMW	0,15 mg/m3	Alveolengängige Staubfraktion

Engineering measures

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

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

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

Personal protective equipment

- Respiratory protection : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time 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 physical and chemical properties****Appearance**

- Form : Powder
- Physical state : Solid
- Color : White
- Odor : No odor

Safety data

- Flash point : Not applicable
- Lower explosion limit : Not applicable
- Upper explosion limit : Not applicable

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

Oxidizing properties	: no
Autoignition temperature	: No data available
Molecular formula	: Mixture
Molecular weight	: Not applicable
pH	: Not applicable
Pour point	: Not applicable
Freezing point	Not applicable
Boiling point/boiling range	: Not applicable
Vapor pressure	: No data available
Relative density	: No data available
Density	: 1,5 g/cm ³
Water solubility	: Negligible
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: Not applicable
Relative vapor density	: No data available
Evaporation rate	: No data available

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.
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Possibility of hazardous reactions

Conditions to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information**Drill-Well™ D325 OBM Fluid Loss Additive**

Acute oral toxicity	: Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
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Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

CMR effects

Crystalline Silica : Carcinogenicity: Human carcinogen.

Further information

Crystalline Silica : Chronic Health Hazard.

SECTION 12: Ecological information

Elimination information (persistence and degradability)

Biodegradability : Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Ecotoxicology Assessment

Results of PBT assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

SECTION 13: Disposal considerations

The 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 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 ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

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

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 SDS and the bill of lading.

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

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**

Major Accident Hazard Legislation : 96/82/EC Update:
Not applicable

Notification status

Europe REACH	:	On the inventory, or in compliance with the inventory
Switzerland CH INV	:	Not in compliance with the inventory
United States of America (USA) 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

Drill-Well™ D325 OBM Fluid Loss Additive

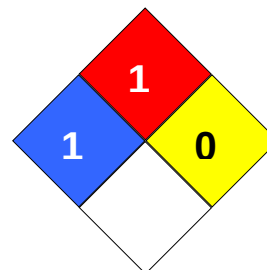
Version 1.0

Revision Date 2017-05-24

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 SDS Number : CPC00548

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.

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

Drill-Well™ D325 OBM Fluid Loss Additive

Version 1.0

Revision Date 2017-05-24

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.

H350 May cause cancer.
H350i May cause cancer by inhalation.
H372 Causes damage to organs through prolonged or repeated exposure if inhaled.