



## Drill-Thin® Thinner

Version 1.10

Revision Date 2019-10-24

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

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

#### 1.1

##### Product information

Product Name : Drill-Thin® Thinner  
Material : 1016816

#### 1.3

##### Details of the supplier of the safety data sheet

**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

#### 1.4

##### Emergency telephone:

##### 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) China: 0532 8388 9090  
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  
Argentina: +(54)-1159839431

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

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Website : www.CPChem.com

**SECTION 2: Hazards identification****2.1****Classification of the substance or mixture  
REGULATION (EC) No 1272/2008**

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 1A	H350i: May cause cancer by inhalation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

**2.2****Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Danger

Hazard Statements :

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H350i	May cause cancer by inhalation.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

**Prevention:**

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapor/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.

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Hazardous ingredients which must be listed on the label:

- 7488-55-3           Stannous Sulfate
- 7758-99-8           Copper sulfate, pentahydrate
- 14808-60-7          Crystalline Silica

**SECTION 3: Composition/information on ingredients****3.1 - 3.2****Substance or Mixture**

Synonyms                               : Drilling Mud Additive

Molecular formula                   : Mixture

**Hazardous ingredients**

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
<b>Methyl ester of sulfonated tannin</b>	<b>Proprietary 269-229-3</b>	Aquatic Chronic 3; H412	50 - 80
Ferrous Sulfate	17375-41-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Irrit. 2; H315	1 - 10
Stannous Sulfate	7488-55-3 231-302-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0 - 10
Copper sulfate, pentahydrate	7758-99-8 029-023-00-4	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0 - 10
Crystalline Silica	14808-60-7 238-878-4	Carc. 1A; H350i 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****4.1****Description of first-aid measures**

General advice                       : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled                               : Call a physician or poison control center immediately. If unconscious, place in recovery position and seek medical

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- advice.
- In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. 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
- 5.1 Extinguishing media**
- Unsuitable extinguishing media : High volume water jet.
- 5.2 Special hazards arising from the substance or mixture**
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- 5.3 Advice for firefighters**
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Fire and explosion protection : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures**
- Personal precautions : Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
- 6.2 Environmental precautions**
- Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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**6.3****Methods and materials for containment and cleaning up**

Methods for cleaning up : Keep in suitable, closed containers for disposal.

**6.4****Reference to other sections**

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

**SECTION 7: Handling and storage****7.1****Precautions for safe handling  
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. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

**7.2****Conditions for safe storage, including any incompatibilities****Storage**

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8: Exposure controls/personal protection****8.1****Control parameters  
Ingredients with workplace control parameters****SK**

Zložky	Podstata	Hodnota	Kontrolné parametre	Poznámka
Copper sulfate, pentahydrate	SK OEL	NPEL priemerný	0,2 mg/m <sup>3</sup>	Dymy
	SK OEL	NPEL priemerný	0,2 mg/m <sup>3</sup>	respirabilná frakcia
	SK OEL	NPEL priemerný	1 mg/m <sup>3</sup>	inhalovateľná frakcia
Stannous Sulfate	SK OEL	NPEL priemerný	2 mg/m <sup>3</sup>	
	SK OEL	NPEL krátkodobý	4 mg/m <sup>3</sup>	
Crystalline Silica	SK OEL	TSH	0,1 mg/m <sup>3</sup>	1A, 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

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	SK OEL	NPEL priemerný	0,1 mg/m <sup>3</sup>	TSH, 4, 3, Tabul'ka 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 zretefnú 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 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 polietavého prachu v respirabilnej a inhalovateľnej frakcii v pracovnom ovzduší podľa prijatej Johannesburgskej konvencie upravuje STN EN 481. Stratégu 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.			
Tabul'ka č. 2	pevné aerosóly s prevažne fibrogénnym účinkom			
TSH	Technické Smerné Hodnoty			

## SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Stannous Sulfate	SI OEL	MV	2 mg/m <sup>3</sup>	EU0,
Copper sulfate, pentahydrate	SI OEL	MV	1 mg/m <sup>3</sup>	I, Inhalabilna frakcija
Crystalline Silica	SI OEL	MV	0,15 mg/m <sup>3</sup>	A, Y, Alveolarna frakcija
<p>A Alveolarna frakcija - del vdihnjene suspendirane snovi, ki doseže alveole</p> <p>EU0 Mejna vrednost, določena z Direktivo Komisije 91/322/EGS z dne 29. maja 1991 o določitvi indikativne mejne vrednosti v skladu z Direktivo Sveta 80/1107/EGS o varovanju delavcev pred tveganjem zaradi izpostavljenosti kemičnim, fizikalnim in biološkim dejavnikom pri delu (UL L, št. 177, z dne 5. julija 1991, str. 22).</p> <p>I Inhalabilna frakcija - del celotne suspendirane snovi, ki jo delavec vdihne</p> <p>Y Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in BAT vrednosti.</p>				

## SE

Bestandsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Stannous Sulfate	SE AFS	NGV	0,1 mg/m <sup>3</sup>	3, Inhalerbar
	SE AFS	NGV	2 mg/m <sup>3</sup>	3, inhalabelt damm
Copper sulfate, pentahydrate	SE AFS	NGV	1 mg/m <sup>3</sup>	3, Totalt damm
	SE AFS	NGV	0,2 mg/m <sup>3</sup>	3, (respirabelt damm)
Crystalline Silica	SE AFS	NGV	0,1 mg/m <sup>3</sup>	3, C, M, Respirabelt
	SE AFS	NGV	0,1 mg/m <sup>3</sup>	3, C, M, (respirabelt damm)
<p>3 Med inhalerbar fraktion menas den dammfraktion 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 respirabel fraktion menas den dammfraktion 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, Arbetarskyddsstyrelsen, 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.</p> <p>C Ämnet är cancerframkallande.</p> <p>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 arbetsmiljörisiker och föreskrifterna om kvarts - stendamm i arbetsmiljön.</p>				

## RS

Компоненты	Основа	Величина	Параметры контроля	Заметка
Бромистый сульфат	RS OEL	GVI	2 mg/m <sup>3</sup>	EU,
	RS OEL	GVI	2 mg/m <sup>3</sup>	EU,

EU Substance mentioned in indicative exposure limit values in Directive 91/322 / EEC

## RO

Componente	Sursă	Valoare	Parametri de control	Notă
Stannous Sulfate	RO OEL	TWA	2 mg/m <sup>3</sup>	
Crystalline Silica	RO OEL	TWA	0,1 mg/m <sup>3</sup>	fracție respirabilă

## PT

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Ferrous Sulfate	PT OEL	VLE-MP	1 mg/m <sup>3</sup>	irritação do TRS,
Stannous Sulfate	PT OEL	VLE-MP	2 mg/m <sup>3</sup>	
	PT DL 305/2007	oito horas	2 mg/m <sup>3</sup>	
Crystalline Silica	PT OEL	VLE-MP	0,025 mg/m <sup>3</sup>	A2, Fração respirável
<p>A2 Agente carcinogénico suspeito no Homem.</p> <p>irritação do trato respiratório superior</p> <p>TRS</p>				

## PL

Składniki	Podstawa	Wartość	Parametry dotyczące	Uwaga
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			kontroli	
Stannous Sulfate	PL NDS	NDS	2 mg/m3	dymy i pyły
	PL NDS	NDS	2 mg/m3	4, frakcja wdychana
Copper sulfate, pentahydrate	PL NDS	NDS	0,2 mg/m3	
Crystalline Silica	PL NDS	NDS	1 mg/m3	6, frakcja respirabilna
	PL NDS	NDS	0,3 mg/m3	6, frakcja respirabilna
	PL NDS	NDS	4 mg/m3	4, frakcja wdychana
	PL NDS	NDS	2 mg/m3	4, frakcja wdychana

4 Frakcja wdychalna - frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia, określona zgodnie z normą PN-EN 481.

6 Frakcja respirabilna - frakcja aerozolu wnikająca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej, określona zgodnie z normą PN-EN 481.

## NO

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
Ferrous Sulfate	FOR-2011-12-06-1358	GV	1 mg/m3	
Stannous Sulfate	FOR-2011-12-06-1358	GV	2 mg/m3	E,
Crystalline Silica	FOR-2011-12-06-1358	GV	0,1 mg/m3	7, K, respirabelt støv
	FOR-2011-12-06-1358	GV	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.

E EU har en veiledende grenseverdi for stoffet.

K Kjemikalier som skal betraktes som kreftfremkallende.

## NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Stannous Sulfate	NL WG	TGG-8 uur	2 mg/m3	
Copper sulfate, pentahydrate	NL WG	TGG-8 uur	0,1 mg/m3	Inhaleerbaar
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

## MT

Components	Basis	Value	Control parameters	Note
Stannous Sulfate	MT OEL	TWA	2 mg/m3	8,

8 Existing scientific data on health effects appear to be particularly limited

## MK

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Stannous Sulfate	MK OEL	MV	2 mg/m3	EU, I, Inhalable fraction - the part of the total suspended material that is inhaled by the employees
Copper sulfate, pentahydrate	MK OEL	MV	1 mg/m3	I, Inhalable fraction - the part of the total suspended material that is inhaled by the employees
Crystalline Silica	MK OEL	MV	0,15 mg/m3	Y, A, Alveolar fraction

A Alveolar fraction - the part of the inhaled suspended material that reaches the alveoli

EU European Union - limit (threshold) value set at the level of European Union

I Inhalable fraction - the part of the total suspended material that is inhaled by the employees

Y Substances without teratogenic effects when respecting limit values and bat values.

## LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Stannous Sulfate	LV OEL	AER 8 st	2 mg/m3	
Copper sulfate, pentahydrate	LV OEL	AER 8 st	0,5 mg/m3	

## LU

Composants	Base	Valeur	Paramètres de contrôle	Note
Stannous Sulfate	LU OEL	TWA	2 mg/m3	

## LT

Komponentai	Šaltinis	Vertė	Kontrolės parametrai	Pastaba
Stannous Sulfate	LT OEL	IPRD	2 mg/m3	
Copper sulfate, pentahydrate	LT OEL	IPRD	1 mg/m3	įkvepiamoji frakcija
	LT OEL	IPRD	0,2 mg/m3	alveolinė frakcija
Crystalline Silica	LT OEL	IPRD	0,1 mg/m3	alveolinė frakcija

## IS

Komponenter	Grunnlag	Verdi	Kontrollparametrer	Nota
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Ferrous Sulfate	IS OEL	TWA	1 mg/m3	
Stannous Sulfate	IS OEL	TWA	2 mg/m3	
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

Components	Basis	Value	Control parameters	Note
Ferrous Sulfate	IE OEL	OELV - 8 hrs (TWA)	1 mg/m3	
	IE OEL	OELV - 15 min (STEL)	2 mg/m3	
Stannous Sulfate	IE OEL	OELV - 8 hrs (TWA)	2 mg/m3	IOELV,
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)

IOELV Indicative Occupational Exposure Limit Value

## HU

Komponensek	Bázis	Érték	Ellenőrzési paraméterek	Megjegyzés
Stannous Sulfate	HU OEL	AK-érték	2 mg/m3	b, EU1, i,
	HU OEL	CK-érték	8 mg/m3	b, EU1, i,
Copper sulfate, pentahydrate	HU OEL	AK-érték	1 mg/m3	
	HU OEL	CK-érték	4 mg/m3	
Crystalline Silica	HU OEL	AK-érték	0,15 mg/m3	respirábilis frakció
	HU OEL	AK-érték	0,15 mg/m3	respirábilis frakció

b Bőrön át is felszívódik. Az AK-értékek a veszélyes anyagoknak ezt a tulajdonságát, illetve az ebből származó expozíciót csak a levegőben megengedett koncentrációjuk mértékének megfelelően veszik figyelembe

EU1 91/322/EGK irányelvben közölt érték

i Ingerlő anyag (izgatja a bőrt, nyálkahártyát, szemet vagy mindhármat)

## HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Ferrous Sulfate	HR OEL	GVI	1 mg/m3	
	HR OEL	KGVI	2 mg/m3	
Stannous Sulfate	HR OEL	GVI	2 mg/m3	
Crystalline Silica	HR OEL	GVI	0,1 mg/m3	

## GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Ferrous Sulfate	GR OEL	TWA	1 mg/m3	
	GR OEL	STEL	2 mg/m3	
Stannous Sulfate	GR OEL	TWA	2 mg/m3	

## GB

Components	Basis	Value	Control parameters	Note
Ferrous Sulfate	GB EH40	TWA	1 mg/m3	
	GB EH40	STEL	2 mg/m3	
Stannous Sulfate	GB EH40	TWA	2 mg/m3	
	GB EH40	STEL	4 mg/m3	
Copper sulfate, pentahydrate	GB EH40	TWA	1 mg/m3	Dusts and mists
	GB EH40	STEL	2 mg/m3	Dusts and mists
Crystalline Silica	GB EH40	TWA	0,1 mg/m3	15, 44, 45, 46, 47, 16, Respirable
	GB EH40	TWA	0,1 mg/m3	15, 44, 45, 46, 47, 16, (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 MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols

16 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit 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 to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits.

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 MDHS14/4.

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	noir, Fraction de poussière alvéolaire

noir Valeurs limites réglementaires contraignantes



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## FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
Ferrous Sulfate	FI OEL	HTP-arvot 8h	1 mg/m <sup>3</sup>	
Stannous Sulfate	FI OEL	HTP-arvot 8h	2 mg/m <sup>3</sup>	
Copper sulfate, pentahydrate	FI OEL	HTP-arvot 8h	0,02 mg/m <sup>3</sup>	alveolijae
Crystalline Silica	FI OEL	HTP-arvot 8h	0,2 mg/m <sup>3</sup>	-, alveolijae
	FI OEL	HTP-arvot 8h	0,05 mg/m <sup>3</sup>	alveolijae

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

## ES

Componentes	Base	Valor	Parámetros de control	Nota
Ferrous Sulfate	ES VLA	VLA-ED	1 mg/m <sup>3</sup>	c,
Stannous Sulfate	ES VLA	VLA-ED	2 mg/m <sup>3</sup>	
Copper sulfate, pentahydrate	ES VLA	VLA-ED	0,01 mg/m <sup>3</sup>	d, fracción respirable
Crystalline Silica	ES VLA	VLA-ED	0,05 mg/m <sup>3</sup>	d, n, y, fracción respirable

c Los términos 'soluble' e 'insoluble' se entienden con referencia al agua.

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 ORDEN ITC/2585/2007, de 30 de agosto, por la que se aprueba la Instrucción técnica complementaria 2.0.02 «Protección de los trabajadores contra el polvo, en relación con la silicosis, en las industrias extractivas», 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
Stannous Sulfate	EE OEL	Piirnorm	2 mg/m <sup>3</sup>	
	EE OEL	Piirnorm	2 mg/m <sup>3</sup>	
Copper sulfate, pentahydrate	EE OEL	Piirnorm	1 mg/m <sup>3</sup>	Kogu tolm
	EE OEL	Piirnorm	0,2 mg/m <sup>3</sup>	Peentolm
Crystalline Silica	EE OEL	Piirnorm	0,1 mg/m <sup>3</sup>	1, Peentolm
	EE OEL	Piirnorm	0,1 mg/m <sup>3</sup>	1, Peentolm

1 Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse (respireeritav fraktsioon).

## DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Ferrous Sulfate	DK OEL	GV	1 mg/m <sup>3</sup>	
Stannous Sulfate	DK OEL	GV	2 mg/m <sup>3</sup>	E,
Crystalline Silica	DK OEL	GV	0,1 mg/m <sup>3</sup>	K, (respirabelt støv)
	DK OEL	GV	0,3 mg/m <sup>3</sup>	Totalt støv

E At stoffet har en EF-grænseværdi

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

## CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Stannous Sulfate	CZ OEL	PEL	2 mg/m <sup>3</sup>	I,
	CZ OEL	NPK-P	4 mg/m <sup>3</sup>	I,
Crystalline Silica	CZ OEL	PEL	0,1 mg/m <sup>3</sup>	Fr, vlákno, respirabilní frakce

Fr Fr = obsah fibrogenní složky v respirabilní frakci v procentech

I dráždí sliznice (oči, dýchací cesty) resp. kůži

## CY

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Stannous Sulfate	CY OEL	TWA	2 mg/m <sup>3</sup>	(8),
Crystalline Silica	CY OEL 2	M.E.Σ.	10mg/m <sup>3</sup> / % respirable quartz	

(8) Τα υπάρχοντα επιστημονικά δεδομένα για τις συνέπειες στην υγεία είναι ιδιαίτερα περιορισμένα

## CH

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Ferrous Sulfate	CH SUVA	MAK-Wert	1 mg/m <sup>3</sup>	OSHA, einatembare Staub
Stannous Sulfate	CH SUVA	MAK-Wert	2 mg/m <sup>3</sup>	NIOSH, OSHA, einatembare Staub
	CH SUVA	KZGW	4 mg/m <sup>3</sup>	NIOSH, OSHA, einatembare Staub
Copper sulfate, pentahydrate	CH SUVA	MAK-Wert	0,1 mg/m <sup>3</sup>	NIOSH, SSc, einatembare Staub
	CH SUVA	KZGW	0,2 mg/m <sup>3</sup>	NIOSH, SSc, einatembare Staub
Crystalline Silica	CH SUVA	MAK-Wert	0,15 mg/m <sup>3</sup>	P, Carc.Cat.1, NIOSH, OSHA, HSE, SSc, alveolengängiger Staub

Carc.Cat.1 Krebszerzeugende Stoffe Kategorie 1

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

**BG**

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Ferrous Sulfate	BG OEL	TWA	1 mg/m <sup>3</sup>	
Stannous Sulfate	BG OEL	TWA	2 mg/m <sup>3</sup>	-,
Copper sulfate, pentahydrate	BG OEL	TWA	1 mg/m <sup>3</sup>	
Crystalline Silica	BG OEL	TWA	0,07 mg/m <sup>3</sup>	Респирабилна

- Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност. Граничните стойности на тези химични агенти във въздуха на работната среда, определени с наредбата, са съобразени със съответните стойности, приети за Европейската общност, като могат да бъдат равни или по-ниски от тях.

**BE**

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Ferrous Sulfate	BE OEL	TGG 8 hr	1 mg/m <sup>3</sup>	
Stannous Sulfate	BE OEL	TGG 8 hr	2 mg/m <sup>3</sup>	D,
	BE OEL	TGG 8 hr	2 mg/m <sup>3</sup>	D,
Crystalline Silica	BE OEL	TGG 8 hr	0,1 mg/m <sup>3</sup>	inadembare fractie
	BE OEL	TGG 8 hr	0,1 mg/m <sup>3</sup>	(respirabel stof)

D Opname van het agens via de huid, de slijmvliezen of de ogen vormt een belangrijk deel van de totale blootstelling. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.

**AT**

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Stannous Sulfate	AT OEL	MAK-TMW	2 mg/m <sup>3</sup>	einatembare Fraktion
	AT OEL	MAK-KZW	4 mg/m <sup>3</sup>	einatembare Fraktion
Copper sulfate, pentahydrate	AT OEL	MAK-TMW	0,1 mg/m <sup>3</sup>	Rauch, alveolengängiger Anteil
	AT OEL	MAK-TMW	1 mg/m <sup>3</sup>	einatembare Fraktion
	AT OEL	MAK-KZW	0,4 mg/m <sup>3</sup>	Rauch, alveolengängiger Anteil
	AT OEL	MAK-KZW	4 mg/m <sup>3</sup>	einatembare Fraktion
Crystalline Silica	AT OEL	MAK-TMW	0,15 mg/m <sup>3</sup>	Alveolengängige Staubfraktion

**8.2**

### Exposure controls 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: 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

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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:. Lightweight protective clothing. Remove and wash contaminated clothing before re-use. Footwear protecting against chemicals. Skin should be washed after contact.
- 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****9.1****Information on basic physical and chemical properties****Appearance**

- Form : Powder
- Physical state : Solid
- Color : Reddish brown
- Odor : musty
- Odor Threshold : No data available

**Safety data**

- Flash point : Not applicable
- Lower explosion limit : Not applicable
- Upper explosion limit : Not applicable
- Molecular formula : Mixture
- Molecular weight : Not applicable
- pH : 6
- Melting point/range : No data available
- Freezing point : No data available
- Pour point : No data available
- Boiling point/boiling range : Not applicable
- Vapor pressure : Not applicable

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Density	: No data available
Water solubility	: Completely 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****10.1**

**Reactivity** : Stable at normal ambient temperature and pressure.

**10.2**

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

**10.3****Possibility of hazardous reactions**

**Hazardous reactions** : Further information: No decomposition if stored and applied as directed.

**10.4**

**Conditions to avoid** : No data available.

**10.5**

**Materials to avoid** : No data available.

**10.6**

**Other data** : No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information****11.1****Information on toxicological effects****Drill-Thin® Thinner**

**Acute oral toxicity** : Acute toxicity estimate: 2.065 mg/kg  
Method: Calculation method

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**Acute inhalation toxicity** : No data available

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- Drill-Thin® Thinner**  
**Acute dermal toxicity** : No data available
- Drill-Thin® Thinner**  
**Skin irritation** : Skin irritation
- Drill-Thin® Thinner**  
**Eye irritation** : May cause irreversible eye damage.
- Drill-Thin® Thinner**  
**Sensitization** : Causes sensitization.

**Repeated dose toxicity**

Methyl ester of sulfonated tannin : Species: Rat, male  
Sex: male  
Application Route: oral gavage  
Dose: 100, 300, 1000 mg/kg  
Exposure time: 32 d  
Number of exposures: Daily  
NOEL: 1.000 mg/kg  
Method: OECD Guideline 422  
No adverse effects expected

Species: Rat, female  
Sex: female  
Application Route: oral gavage  
Dose: 100, 300, 1000 mg/kg  
Exposure time: 39 - 47 d  
Number of exposures: Daily  
NOEL: 1.000 mg/kg  
Method: OECD Guideline 422  
No adverse effects expected

**Genotoxicity in vitro**

Methyl ester of sulfonated tannin : Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Method: OECD Guideline 473  
Result: negative

**Reproductive toxicity**

Methyl ester of sulfonated tannin : Species: Rat  
Sex: male  
Application Route: oral gavage  
Dose: 100, 300, 1000 mg/kg  
Exposure time: 32 d  
Number of exposures: Daily  
Method: OECD Guideline 422  
NOAEL Parent: 1.000 mg/kg  
Fertility and developmental toxicity tests did not reveal any effect on reproduction.

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Species: Rat  
 Sex: female  
 Application Route: oral gavage  
 Dose: 100, 300, 1000 mg/kg  
 Exposure time: 39 - 47 d  
 Number of exposures: Daily  
 Method: OECD Guideline 422  
 NOAEL Parent: 1.000 mg/kg  
 NOAEL F1: 1.000 mg/kg  
 Fertility and developmental toxicity tests did not reveal any effect on reproduction.

**CMR effects**

Crystalline Silica : Carcinogenicity: Positive evidence from human epidemiological studies (inhalation)

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Further information**

: Chronic Health Hazard.

**SECTION 12: Ecological information****12.1****Toxicity****Ecotoxicity effects****Toxicity to fish**

Methyl ester of sulfonated tannin : LL50: > 1.800 mg/l  
 Exposure time: 96 h  
 Species: *Scophthalmus maximus* (Flatfish, Flounder)  
 Method: OECD Test Guideline 203

Ferrous Sulfate LL50: > 6,25 mg/l  
 Exposure time: 96 h  
 Species: *Cyprinodon variegatus* (sheepshead minnow)  
 semi-static test Method: OECD Test Guideline 203

Stannous Sulfate > 0,0625 mg/l  
 Exposure time: 96 h  
 Species: *Cyprinodon variegatus* (sheepshead minnow)  
 static test Method: OECD Test Guideline 203

Copper sulfate, pentahydrate LC50: 38,4 µg/l  
 Exposure time: 96 h  
 Species: *Pimephales promelas* (fathead minnow)  
 flow-through test

**Toxicity to daphnia and other aquatic invertebrates**

Methyl ester of sulfonated tannin : EL50: 73,2 mg/l  
 Exposure time: 48 h  
 Species: *Acartia tonsa* (Marine Copepod)  
 Method: ISO TC147/SC5/WG2

Ferrous Sulfate LC50: 190 mg/l  
 Exposure time: 48 h

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	Species: <i>Acartia tonsa</i> (Marine Copepod) Method: ISO TC147/SC5/WG2
Stannous Sulfate	EC50: 230 mg/l Species: <i>Acartia tonsa</i> (Marine Copepod) Method: ISO TC147/SC5/WG2
Copper sulfate, pentahydrate	10 µg/l Exposure time: 48 h Species: <i>Daphnia magna</i> (Water flea) static test
<b>Toxicity to algae</b>	
Methyl ester of sulfonated tannin	: ErC50: > 100 mg/l Exposure time: 72 h Species: <i>Desmodesmus subspicatus</i> (green algae) Method: OECD Test Guideline 201
	EbC50: 79 mg/l Exposure time: 72 h Species: <i>Desmodesmus subspicatus</i> (green algae) Method: OECD Test Guideline 201
Ferrous Sulfate	EL50: 45 mg/l Exposure time: 72 h Species: <i>Skeletonema costatum</i> (Marine Algae) Method: ISO 10253
Stannous Sulfate	EC50: 0,55 mg/l Exposure time: 72 h Species: <i>Skeletonema costatum</i> (Marine Algae) Method: ISO 10253
Copper sulfate, pentahydrate	EbC50: 32 µg/l Exposure time: 72 h Species: <i>Pseudokirchneriella subcapitata</i> (green algae) static test
<b>M-Factor</b>	
Copper(II) sulfate, pentahydrate (1:1:5)	: M-Factor (Acute Aquat. Tox.) 10 M-Factor (Chron. Aquat. Tox.) 10

**12.2****Persistence and degradability**

## Biodegradability

Methyl ester of sulfonated tannin	: aerobic 38 % Testing period: 28 d According to the results of tests of biodegradability this product is not readily biodegradable.
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**12.3****Bioaccumulative potential**

Elimination information (persistence and degradability)

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Bioaccumulation : This material is not expected to bioaccumulate.

**12.4****Mobility in soil**

Mobility : No data available

**12.5****Results of PBT and vPvB 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.

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.

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.

**12.6****Other adverse effects**

Additional ecological information : Very toxic to aquatic life with long lasting effects.

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations****13.1****Waste treatment methods**

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 : The product should not be allowed to enter drains, water courses or the soil. 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****14.1 - 14.7****Transport information**



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**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (COPPER SULFATE, PENTAHYDRATE, FERROUS SULFATE), 9, III, MARINE POLLUTANT, (COPPER SULFATE, PENTAHYDRATE), RQ (FERROUS SULFATE)

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (STANNOUS SULFATE, COPPER SULFATE, PENTAHYDRATE), 9, III, MARINE POLLUTANT, (STANNOUS SULFATE, COPPER SULFATE, PENTAHYDRATE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (STANNOUS SULFATE, COPPER SULFATE, PENTAHYDRATE), 9, III

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (STANNOUS SULFATE, COPPER SULFATE, PENTAHYDRATE), 9, III

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (STANNOUS SULFATE, COPPER SULFATE, PENTAHYDRATE), 9, III

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (STANNOUS SULFATE, COPPER SULFATE, PENTAHYDRATE), 9, III

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

**SECTION 15: Regulatory information****15.1**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**National legislation**

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Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**15.2**

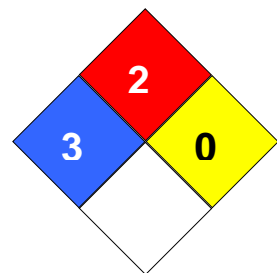
**Major Accident Hazard Legislation** : ZEU\_SEVES3 Update:  
ENVIRONMENTAL HAZARDS  
E1  
Quantity 1: 100 t  
Quantity 2: 200 t

**Notification status**

Europe REACH	:	Not in compliance with the inventory
Switzerland CH INV	:	On the inventory, or in compliance with the inventory
United States of America (USA) TSCA	:	On or in compliance with the active portion of the TSCA inventory
Canada DSL	:	All components of this product are on the Canadian DSL
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	:	Not in compliance with the inventory
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. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance.
Philippines PICCS	:	Not in compliance with the inventory
China IECSC	:	On the inventory, or in compliance with the inventory
Taiwan TCSI	:	Not in compliance with the inventory

**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 3  
Fire Hazard: 2  
Reactivity Hazard: 0

**Further information**

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.

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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.**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350i	May cause cancer by inhalation.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.