

**Sulfur Control Type F**

Version 1.3

Revision Date 2016-01-15

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

Product Name : Sulfur Control Type F
Material : 1096737

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

Local : Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
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Responsible Party: Product Safety Group
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Responsible Department : Product Safety and Toxicology Group
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SECTION 2: Hazards identification**Classification of the substance or mixture
REGULATION (EC) No 1272/2008**

Not a hazardous substance or mixture.

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

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

Not a hazardous substance or mixture.

Additional Labeling:

EUH210 Safety data sheet available on request.

SECTION 3: Composition/information on ingredients

Synonyms : Catalyst F
CPCChem Sulfur Control F

Molecular formula : Mixture

Mixtures**Hazardous ingredients**

Chemical Name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Alumina Oxide	1344-28-1 215-691-6		96
Aluminum chloride hydroxide	12042-91-0 234-933-1		1 - 5
Platinum	7440-06-4 231-116-1		2

SECTION 4: First aid measures

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : Call a physician or poison control center immediately. If unconscious place in recovery position and seek medical 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 : Immediately flush eye(s) with plenty of water. 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.

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

SECTION 5: Firefighting measures

Flash point	: Not applicable
Autoignition temperature	: Not applicable
Unsuitable extinguishing media	: High volume water jet.
Specific hazards during fire fighting	: Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.
Special protective equipment for fire-fighters	: Wear self-contained breathing apparatus for firefighting if necessary.
Further information	: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection	: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.
Hazardous decomposition products	: Chlorine.

SECTION 6: Accidental release measures

Personal precautions	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.
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.
Additional advice	: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

SECTION 7: Handling and storage**Handling**

Advice on safe handling	: Avoid formation of respirable particles. Do not breathe vapors/dust. 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.
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Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

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 : Prevent unauthorized access. 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. Electrical installations / working materials must comply with the technological safety standards.

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

Bileşenleri	Esaslar	Değer	Kontrol parametreleri	Not
Platinum	TR OEL	TWA (8 Saat)	1 mg/m3	9,

9 Sağlığa etkileri konusunda, sınırlı bilimsel veri bulunan maddeler.

SK

Zložka	Podstata	Hodnota	Kontrolné parametre	Poznámka
Alumina Oxide	SK OEL	NPEL priemerný	1,5 mg/m3	respirabilná frakcia
	SK OEL	NPEL priemerný	4 mg/m3	inhalovateľná frakcia
	SK OEL	NPEL priemerný	0,1 mg/m3	4, 3, Tabuľka č. 2, 1, 5, respirabilná frakcia
Aluminum chloride hydroxide	SK OEL	NPEL priemerný	2 mg/m3	
Platinum	SK OEL	NPEL priemerný	1 mg/m3	

- 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
 - 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.
- Tabuľka č. 2 pevné aerosóly s prevažne fibrogénnym účinkom

SI

Sestavine	Osnova	Vrednost	Parametri nadzora	Pripomba
Platinum	SI OEL	MV	1 mg/m3	EU,

EU European Union - mejna vednost določena na ravni Evropske unije

SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Alumina Oxide	SE AFS	NGV	5 mg/m3	2, Total
	SE AFS	NGV	2 mg/m3	2, Respirabelt
Platinum	SE AFS	NGV	1 mg/m3	2, Totalt damm

- 2 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 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, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiameteren är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod.

RU

Компоненты	Основа	Величина	Параметры контроля	Заметка
Alumina Oxide	RU OEL	ПДК	6 mg/m3	Ф, 4,

- 4 4 класс - умеренно опасные
- Ф аэрозоли преимущественно фиброгенного действия

RS

Компоненты	Основа	Величина	Параметры контроля	Заметка
Platinum	RS OEL	GVI	1 mg/m3	EU,

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

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

RO

Componente	Bază	Valoare	Parametri de control	Notă
Alumina Oxide	RO OEL	TWA	0,5 ppm, 2 mg/m ³	Aerosol
	RO OEL	STEL	1,2 ppm, 5 mg/m ³	Aerosol
Aluminum chloride hydroxide	RO OEL	TWA	3 mg/m ³	Praf
	RO OEL	TWA	1 mg/m ³	Fum
	RO OEL	STEL	10 mg/m ³	Praf
	RO OEL	STEL	3 mg/m ³	Fum

PT

Componentes	Bases	Valor	Parâmetros de controle	Nota
Alumina Oxide	PT OEL	VLE-MP	10 mg/m ³	(E), A4, iritação do TRI,
Aluminum chloride hydroxide	PT OEL	VLE-MP	2 mg/m ³	irritação do TRI,
Platinum	PT OEL	VLE-MP	1 mg/m ³	(1), iritação do TRS,
	PT DL 305/2007	oito horas	1 mg/m ³	

- (1) Abrangido por legislação nacional específica ou por legislação comunitária não transposta
 (E) O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina
 A4 Agente não classificável como carcinogénico no Homem.
 iritação do TRI iritação do trato respiratório inferior
 iritação do TRS iritação do trato respiratório superior

PL

Składniki	Podstawa	Wartość	Parametry dotyczące kontroli	Uwaga
Alumina Oxide	PL NDS	NDS	2,5 mg/m ³	całkowity
	PL NDS	NDS	1,5 mg/m ³	frakcja respirabilna
Platinum	PL NDS	NDS	1 mg/m ³	

NO

Komponenter	Grunnlag	Verdi	Kontrollparametere	Nota
Alumina Oxide	FOR-2011-12-06-1358	TWA	10 mg/m ³	1,
Aluminum chloride hydroxide	FOR-2011-12-06-1358	TWA	2 mg/m ³	

1 Grenseverdien er fastsatt lik verdien for sjenerende støv.

NL

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Platinum	NL WG	TGG-8 uur	1 mg/m ³	

MT

Ingredients	Basis	Value	Control parameters	Note
Platinum	MT OEL	TWA	1 mg/m ³	8,

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

MK

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Platinum	MK OEL	MV	1 mg/m ³	EU, Inhalable fraction - the part of the total suspended material that is inhaled by the employees

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

LV

Sastāvdaļas	Bāze	Vērtība	Pārvaldības parametri	Piezīme
Alumina Oxide	LV OEL	AER 8 st	6 mg/m ³	
Platinum	LV OEL	AER 8 st	1 mg/m ³	

LU

Composants	Base	Valeur	Paramètres de contrôle	Note
Platinum	LU OEL	TWA	1 mg/m ³	

LT

Komponentai	Pagrindas, bazė	Vertė	Kontrolės parametrai	Pastaba
Alumina Oxide	LT OEL	IPRD	5 mg/m ³	Įkvepiamoji
	LT OEL	IPRD	2 mg/m ³	Alveolinė
Aluminum chloride hydroxide	LT OEL	IPRD	5 mg/m ³	Įkvepiamoji
	LT OEL	IPRD	2 mg/m ³	Alveolinė
Platinum	LT OEL	IPRD	1 mg/m ³	

IS

Komponenter	Grunnlag	Verdi	Kontrollparametere	Nota
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SDS Number:100000014331

5/14

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

Alumina Oxide	IS OEL	TWA	10 mg/m3	
Platinum	IS OEL	TWA	1 mg/m3	Pulver og støv

IE

Ingredients	Basis	Value	Control parameters	Note
Alumina Oxide	IE OEL	OELV - 8 hrs (TWA)	10 mg/m3	total inhalable
	IE OEL	OELV - 8 hrs (TWA)	4 mg/m3	respirable
Aluminum chloride hydroxide	IE OEL	OELV - 8 hrs (TWA)	2 mg/m3	
Platinum	IE OEL	OELV - 8 hrs (TWA)	1 mg/m3	IOELV,

IOELV Indicative Occupational Exposure Limit Value

HU

Komponensek	Bázis	Érték	Határérték	Megjegyzés
Alumina Oxide	HU OEL	AK-érték	6 mg/m3	respirábilis por
	HU OEL	CK-érték	48 mg/m3	respirábilis por
Platinum	HU OEL	AK-érték	1 mg/m3	EU1,
	HU OEL	CK-érték	8 mg/m3	EU1,

EU1 91/322/EGK irányelvben közölt érték

HR

Sastojci	Temelj	Vrijednost	Nadzorni parametri	Bilješka
Alumina Oxide	HR OEL	GVI	10 mg/m3	Ukupna prašina
	HR OEL	GVI	4 mg/m3	Prašina koja se može udahnuti
Aluminum chloride hydroxide	HR OEL	GVI	2 mg/m3	K, C,
Platinum	HR OEL	GVI	1 mg/m3	
	HR OEL	GVI	1 mg/m3	EU,

C Nagrizajuće

EU Naznaka da se radi o tvarima za koje su utvrđene indikativne granične vrijednosti izloženosti prema Direktivi 91/322/ EEC

K naznaka da tvar može štetno djelovati kroz kožu

GR

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Alumina Oxide	GR OEL	TWA	5 mg/m3	εισπνεύσιμος
	GR OEL	TWA	10 mg/m3	ανασπνεύσιμος
Aluminum chloride hydroxide	GR OEL	TWA	2 mg/m3	
Platinum	GR OEL	TWA	5 mg/m3	

GB

Ingredients	Basis	Value	Control parameters	Note
Alumina Oxide	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
Aluminum chloride hydroxide	GB EH40	TWA	2 mg/m3	2,
Platinum	GB EH40	TWA	5 mg/m3	2,

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
Alumina Oxide	FR VLE	VME	10 mg/m3	normal,
Aluminum chloride hydroxide	FR VLE	VME	2 mg/m3	normal,
Platinum	FR VLE	VME	1 mg/m3	normal,

normal Valeurs limites indicatives

FI

Aineosat	Peruste	Arvo	Valvontaa koskevat muuttujat	Huomautus
Platinum	FI OEL	HTP-arvot 8h	1 mg/m3	

ES

Componentes	Base	Valor	Parámetros de control	Nota
Alumina Oxide	ES VLA	VLA-ED	10 mg/m3	

SDS Number:100000014331

6/14

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

Aluminum chloride hydroxide	ES VLA	VLA-ED	2 mg/m3	c,
Platinum	ES VLA	VLA-ED	1 mg/m3	

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

EE

Komponendid, osad	Alused	Väärtus	Kontrolliparameetrid	Märkused
Alumina Oxide	EE OEL	Piinorm	10 mg/m3	Kogu tolm
	EE OEL	Piinorm	4 mg/m3	1, Peentolm
Aluminum chloride hydroxide	EE OEL	Piinorm	10 mg/m3	Kogu tolm
	EE OEL	Piinorm	4 mg/m3	1, Peentolm
Platinum	EE OEL	Piinorm	1 mg/m3	

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

DK

Komponenter	Basis	Værdi	Kontrolparametre	Note
Alumina Oxide	DK OEL	GV	5 mg/m3	total
	DK OEL	GV	2 mg/m3	respirabel
Aluminum chloride hydroxide	DK OEL	GV	1 mg/m3	
Platinum	DK OEL	GV	1 mg/m3	pulver og støv

DE

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Alumina Oxide	DE TRGS 900	AGW	10 mg/m3	AGS, Einatembare Fraktion
	DE TRGS 900	AGW	3 mg/m3	AGS, Alveolengängige Fraktion
Platinum	DE TRGS 900	AGW	1 mg/m3	EU, 13, Einatembare Fraktion

13 Eine Begründung für die Ableitung eines AGW liegt nicht vor.

AGS Ausschuss für Gefahrstoffe

EU Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich.)

CZ

Složky	Základ	Hodnota	Kontrolní parametry	Poznámka
Alumina Oxide	CZ OEL	PEL	0,1 mg/m3	Fr, vlákno, respirabilní frakce
Aluminum chloride hydroxide	CZ OEL	PEL	10 mg/m3	Celkové prach
Platinum	CZ OEL	PEL	0,5 mg/m3	
	CZ OEL	NPK-P	1 mg/m3	

Fr Fr = obsah fibrogenní složky v respirabilní frakci v procentech

CY

Συστατικά	Βάση	Τιμή	Παράμετροι ελέγχου	Σημείωση
Platinum	CY OEL	TWA	1 mg/m3	(8),

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

CH

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Alumina Oxide	CH SUVA	MAK-Wert	3 mg/m3	s. Anhang 1.8.2, NIOSH, alveolengängiger Staub
	CH SUVA	KZGW	24 mg/m3	s. Anhang 1.8.2, NIOSH, alveolengängiger Staub
Aluminum chloride hydroxide	CH SUVA	MAK-Wert	2 mg/m3	einatembarer Staub
Platinum	CH SUVA	MAK-Wert	1 mg/m3	einatembarer Staub

NIOSH National Institute for Occupational Safety and Health

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.

BG

Съставки	Основа	Стойност	Параметри на контрол	Бележка
Alumina Oxide	BG OEL	TWA	10 mg/m3	
	BG OEL	TWA	1,5 mg/m3	Респирабилна
Aluminum chloride hydroxide	BG OEL	TWA	10 mg/m3	
	BG OEL	TWA	1,5 mg/m3	Респирабилна
Platinum	BG OEL	TWA	1 mg/m3	-,

- 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.

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

BE

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Alumina Oxide	BE OEL	TGG 8 hr	1 mg/m3	inadembaar
Aluminum chloride hydroxide	BE OEL	TGG 8 hr	2 mg/m3	
Platinum	BE OEL	TGG 8 hr	1 mg/m3	

AT

Inhaltsstoffe	Grundlage	Wert	Zu überwachende Parameter	Bemerkung
Alumina Oxide	AT OEL	TMW	5 mg/m3	
	AT OEL	KZW	10 mg/m3	
Aluminum chloride hydroxide	AT OEL	TMW	5 mg/m3	Rauch, alveolengängiger Anteil
	AT OEL	TMW	5 mg/m3	alveolengängiger Anteil
	AT OEL	TMW	10 mg/m3	einatembare Fraktion
	AT OEL	KZW	10 mg/m3	Rauch, alveolengängiger Anteil
	AT OEL	KZW	10 mg/m3	alveolengängiger Anteil
	AT OEL	KZW	20 mg/m3	einatembare Fraktion
Platinum	AT OEL	TMW	1 mg/m3	einatembare Fraktion

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 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.

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Form	: free flowing wettable powder, wettable powder
Physical state	: Solid
Color	: White, off-white
Odor	: Odorless
Odor Threshold	: No data available

Safety data

Flash point	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Oxidizing properties	: No
Autoignition temperature	: Not applicable
Molecular formula	: Mixture
Molecular weight	: Not applicable
pH	: Not applicable
Pour point	: No data available
Boiling point/boiling range	: Not applicable
Vapor pressure	: Not applicable
Relative density	: 0,7 - 1,3 at 0 °C (32 °F)
Water solubility	: Insoluble
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: Not applicable
Relative vapor density	: Not applicable
Evaporation rate	: No data available
Dust deflagration index Kst	: > 0,0 m.b_/s

SECTION 10: Stability and reactivity

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

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 : No data available.
Hazardous decomposition products : Chlorine

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

SECTION 11: Toxicological information**Sulfur Control Type F**

Acute oral toxicity : Presumed Not Toxic
Information refers to the main ingredient.

Sulfur Control Type F

Acute inhalation toxicity : LC50: unknown

Sulfur Control Type F

Acute dermal toxicity : Presumed Not Toxic
Information refers to the main ingredient.

Sulfur Control Type F

Skin irritation : May cause skin irritation in susceptible persons.

Sulfur Control Type F

Eye irritation : May irritate eyes.

Sulfur Control Type F

Sensitization : No data available.

Sulfur Control Type F

Aspiration toxicity : No aspiration toxicity classification.

Sulfur Control Type F

Further information : No data available.

SECTION 12: Ecological information**Ecotoxicity effects**

Toxicity to fish : No data available

Toxicity to daphnia and other aquatic invertebrates : No data available

Toxicity to algae

Alumina Oxide : NOEC: > 100 mg/l

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

Exposure time: 72 h
Species: *Selenastrum capricornutum* (algae)
Method: OECD Test Guideline 201

Elimination information (persistence and degradability)

Biodegradability : Not applicable

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 : No data available

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.

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.

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

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

Water contaminating class (Germany) : nwg not water endangering

Notification status

Europe REACH	:	A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances.
United States of America TSCA	:	On 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	:	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

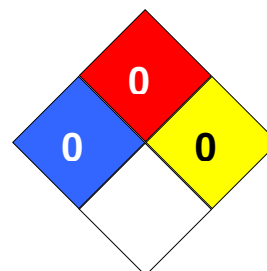
Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

SECTION 16: Other information

NFPA Classification : Health Hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

**Further information**

Legacy SDS Number : 3517

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
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average

Sulfur Control Type F

Version 1.3

Revision Date 2016-01-15

	Substances in China		
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%		