

Version 2.5 Revision Date 2020-10-15

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

**Product information** 

Product Name : Sulfur Control Type F

Material: 1096737

Use : Chemical intermediate

Company : Chevron Phillips Chemical Company LP

10001 Six Pines Drive The Woodlands, TX 77380

#### **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 Website : www.CPChem.com

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification

:

Not a hazardous substance or mixture.

#### Labeling

Not a hazardous substance or mixture.

SDS Number:100000014331 1/10

Version 2.5 Revision Date 2020-10-15

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

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

Synonyms : Catalyst F

CPChem Sulfur Control F

Molecular formula : Mixture

Component	CAS-No.	Weight %
Aluminum Oxide	1344-28-1	96
Aluminum chloride hydroxide	12042-91-0	1 - 5
Platinum	7440-06-4	2

## **SECTION 4: First aid measures**

General advice : No hazards which require special first aid measures.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses. Protect unharmed eye. If eye

irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do not give milk or alcoholic

beverages. Never give anything by mouth to an unconscious

person. If symptoms persist, call a physician.

## **SECTION 5: Firefighting measures**

Flash point : Not applicable

Autoignition temperature : Not applicable

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

: Provide appropriate exhaust ventilation at places where dust is

formed.

SDS Number:100000014331 2/10

Version 2.5 Revision Date 2020-10-15

#### SECTION 6: Accidental release measures

Personal precautions : Avoid dust formation.

Methods for cleaning up : Pick up and arrange disposal without creating dust. Sweep up

and shovel. Keep in suitable, closed containers for disposal.

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

#### Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area.

Advice on protection against fire and explosion

: Provide appropriate exhaust ventilation at places where dust is

formed.

#### **Storage**

Requirements for storage areas and containers

: Electrical installations / working materials must comply with the

technological safety standards.

Advice on common storage : No materials to be especially mentioned.

Use : Chemical intermediate

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

#### Ingredients with workplace control parameters

US

Components	Basis	Value	Control parameters	Note
Aluminum Oxide	OSHA Z-1	TWA	15 mg/m3	total dust
	OSHA Z-1	TWA	5 mg/m3	respirable fraction
	OSHA Z-1-A	TWA	10 mg/m3	Total dust
	OSHA Z-1-A	TWA	5 mg/m3	respirable dust fraction
	ACGIH	TWA	1 mg/m3	A4, Respirable particulate matter
Aluminum chloride hydroxide	OSHA Z-1-A	TWA	2 mg/m3	
-	OSHA Z-1-A	TWA	2 mg/m3	
Platinum	ACGIH	TWA	1 mg/m3	
	OSHA Z-1-A	TWA	1 mg/m3	

A4 Not classifiable as a human carcinogen

#### **Engineering measures**

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

#### Personal protective equipment

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under

SDS Number:100000014331 3/10

Version 2.5 Revision Date 2020-10-15

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, aerosolization, 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.

Hygiene measures : General industrial hygiene practice.

### **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

SDS Number:100000014331 4/10

# Sulfur Control Type F

Version 2.5 Revision Date 2020-10-15

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**

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

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

**Hazardous reactions** : Further information: Stable under recommended storage

conditions., No hazards to be specially mentioned.

Hazardous reactions: Dust may form explosive mixture in air.

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

Other data : Keep in a dry place.

No decomposition if stored and applied as directed.

### **SECTION 11: Toxicological information**

Sulfur Control Type F

Acute oral toxicity : Not classified

**Sulfur Control Type F** 

Acute inhalation toxicity : No data available

SDS Number:100000014331 5/10

# Sulfur Control Type F

Version 2.5 Revision Date 2020-10-15

Sulfur Control Type F

Acute dermal toxicity : Not classified

Sulfur Control Type F

Skin irritation : May irritate skin.

Sulfur Control Type F

Eye irritation : May irritate eyes.

Sulfur Control Type F

Sensitization : No data available.

Genotoxicity in vitro

Aluminum Oxide : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

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

Aluminum Oxide : NOEC: > 100 mg/l

Exposure time: 72 h

Species: Selenastrum capricornutum (algae)

Method: OECD Test Guideline 201

Biodegradability : Not applicable

Elimination information (persistence and degradability)

Mobility : No data available

Additional ecological

information excluded in the event of unprofessional handling or disposal.

: No data available, An environmental hazard cannot be

**Ecotoxicology Assessment** 

SDS Number:100000014331 6/10

# Sulfur Control Type F

Version 2.5 Revision Date 2020-10-15

#### **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.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

## **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.

#### 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.

SDS Number:100000014331 7/10

## Sulfur Control Type F

Version 2.5 Revision Date 2020-10-15

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

#### **SECTION 15: Regulatory information**

#### **National legislation**

SARA 311/312 Hazards : No SARA Hazards

**CERCLA Reportable** 

Quantity

: This material does not contain any components with a CERCLA

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: This material does not contain any components with a section

302 EHS TPQ.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Components : The following components are subject to reporting levels

established by SARA Title III, Section 313:

: Aluminum Oxide - 1344-28-1

### Clean Air Act

Ozone-Depletion Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

SDS Number:100000014331 8/10

Version 2.5 Revision Date 2020-10-15

#### **US State Regulations**

Pennsylvania Right To Know

: Aluminum Oxide - 1344-28-1 Platinum - 7440-06-4

Aluminum chloride hydroxide - 12042-91-0

**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.

Switzerland CH INV : On the inventory, or in compliance with the inventory

United States of America (USA) : On or in compliance with the active portion of the

TSCA 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 : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory Taiwan TCSI : On the inventory, or in compliance with the inventory

## SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



**Further information** 

Legacy SDS Number : 3517

SDS Number:100000014331 9/10

Version 2.5 Revision Date 2020-10-15

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 a	cronyms used	d 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%		

10/10

SDS Number:100000014331