## SAFETY DATA SHEET



# Sulfur Control Type G

Version 2.2

Revision Date 2020-10-15

Product information	
Product Mame Material	: Sulfur Control Type G : 1096738
Use	: Chemical intermediate
Company	: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
Asia: CHEMWATCH EUROPE: BIG +32.1 Mexico CHEMTREC South America SOS- Argentina: +(54)-1159 Responsible Departmen E-mail address	t : Product Safety and Toxicology Group : SDS@CPChem.com
Website	: www.CPChem.com
CTION 2: Hazards identif	lication
	<b>Ibstance or mixture</b> lassified in accordance with the hazard communication standard 29 CFF d labels contain all the information as required by the standard.
Classification	
	: Corrosive to Metals, Category 1 Skin corrosion, Category 1B Serious eye damage, Category 1
Labeling	Skin corrosion, Category 1B

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Symbol(s)	
Signal Word	: Danger
Hazard Statements	: H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage.
Precautionary Statements	<ul> <li>Frevention:</li> <li>P234 Keep only in original container.</li> <li>P260 Do not breathe dust/fume/gas/mist/vapors/spray.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>Response:</li> <li>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> <li>P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</li> <li>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.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P390 Absorb spillage to prevent material damage.</li> <li>Storage:</li> <li>P406 Store in corrosive resistant container with a resistant inner liner.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste disposal plant.</li> </ul>
Carcinogenicity:	
IARC NTP	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. 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.
TION 3: Composition/inf	ormation on ingredients
Synonyms	: Catalyst G CPChem Sulfur Control G
Molecular formula	: Mixture
Component Aluminum Oxide	CAS-No.         Weight %           1344-28-1         70 - 95

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Potassium Oxide		12136-45-7 5 - 20
ECTION 4: 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	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. 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. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
CTION 5: Firefighting measu	res	
Flash point	:	Not applicable
Autoignition temperature	:	Not applicable
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
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.
ECTION 6: Accidental release	me	asures
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	·	raanal protoctiv		
Personal precautions		preathing dust.	e equipment. Avoid dust	Tormation.
Environmental precautions	or spilla	age if safe to do	ntering drains. Prevent so. If the product contai orm respective authorities	minates rivers
Methods for cleaning up	: Keep ir	n suitable, close	d containers for disposal	
ECTION 7: Handling and stor	age			
Handling				
Advice on safe handling	vapors/ protecti be prof	/dust. Avoid cor ion see section a hibited in the app	irable particles. Do not of the notion of th	For personal drinking should
Advice on protection against fire and explosion		dust formation. I es where dust is	Provide appropriate exha formed.	aust ventilation
Storage				
Requirements for storage areas and containers	Contair kept up Electric	ners which are coright to prevent	closed in a dry and well-v pened must be carefully leakage. Observe label working materials must andards.	resealed and precautions.
Use	: Chemic	cal intermediate		
CTION 8: Exposure control	s/personal p	rotection		
Ingredients with workplac	e control pa:	rameters		
omponents	Basis	Value	Control parameters	Note
luminum Oxide	OSHA Z-1 OSHA Z-1	TWA TWA	15 mg/m3 5 mg/m3	total dust respirable fraction
	OSHA Z-1-A	TWA	10 mg/m3	Total dust
	OSHA Z-1-A	TWA	5 mg/m3	respirable dust fractio
	ACGIH	TWA	1 mg/m3	A4, Respirable particulate matter
A4 Not classifiable as a human	carcinogen			
Engineering measures				
Adequate ventilation to con Consider the potential haza activities, and other substar	rds of this ma	aterial (see Sect	on 2), applicable exposu	ıre limits, job
personal protective equipme				
exposure to harmful levels	of this materia	al, the personal	protective equipment liste	ed below is
recommended. The user sl the equipment since protect				
Personal protective equip	ment			
Respiratory protection	: Wear a	supplied-air NI	OSH approved respirato	runless
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	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 Air-Purifying Respirator for Organic Vapors, Dusts and Mists. 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 ther is any indication of degradation or chemical breakthrough.
Eye protection	: Eye wash bottle with pure water.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to th specific work-place. Wear as appropriate:. Protective suit. Complete head face and neck protection. Footwear protecting against chemicals.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
TION 9: Physical and che	nical properties
Information on basic phy	sical and chemical properties
Appearance	
Form Physical state Color Odor	: Pellets : solid : White : Odorless
Safety data	
Flash point	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Oxidizing properties	: No
	: Not applicable
Autoignition temperature	
Autoignition temperature Molecular formula	: Mixture
	: Mixture : Not applicable

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	рН	:	Not applicable
	Melting point/range	:	1,648.9-2,204.4°C (3,000.0-3,999.9°F)
	Boiling point/boiling range	:	No data available
	Vapor pressure	:	No data available
	Relative density	:	0.7
	Density	:	35 - 40 LB/FT3
	Water solubility	:	negligible
	Partition coefficient: n- octanol/water	:	No data available
	Viscosity, kinematic	:	Not applicable
	Relative vapor density	:	Not applicable
	Evaporation rate	:	Not applicable
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SH	CTION 10. Stability and reactiv	Itv	

#### 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 re	eactions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: No data available.
Other data	: No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

Sulfur Control Type G Acute oral toxicity	: No data available
Sulfur Control Type G Acute inhalation toxicity	: No data available
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Sulfur Control Type G Acute dermal toxicity	: No data available
Sulfur Control Type G Skin irritation	: Extremely corrosive and destructive to tissue.
Sulfur Control Type G Eye irritation	: May cause irreversible eye damage.
Genotoxicity in vitro	
Aluminum Oxide	: Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
Sulfur Control Type G Aspiration toxicity	: No aspiration toxicity classification.
Sulfur Control Type G Further information	: No data available.
CTION 12: Ecological inform	nation

Toxicity to fish	
Aluminum Oxide	: NOEC: > 100 mg/l Exposure time: 96 h Species: Salmo salar (Atlantic salmon) Method: OECD Test Guideline 203
Toxicity to daphnia and of	ther aquatic invertebrates
Aluminum Oxide	: EC50: > 100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202
Toxicity to algae	
Aluminum Oxide	: NOEC: > 100 mg/l Exposure time: 72 h Species: Selenastrum capricornutum (algae) Method: OECD Test Guideline 201
Biodegradability	: This material is not expected to be readily biodegradable.
Elimination information (per Additional ecological information	sistence and degradability) : This material is not expected to be harmful to aquatic organisms.
	No data available
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#### Ecotoxicology Assessment

#### 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)

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (POTASSIUM OXIDE), 8, II

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

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (POTASSIUM OXIDE), 8, II

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (POTASSIUM OXIDE), 8, II

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

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (POTASSIUM OXIDE), 8, II, (E)

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

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (POTASSIUM OXIDE), 8, II

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

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (POTASSIUM OXIDE), 8, II

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

### SECTION 15: Regulatory information

National legislation				
SARA 311/312 Hazards	: Corrosive to Metals Skin corrosion or irritation Serious eye damage or eye irritation			
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	<ul> <li>The following components are subject to reporting levels established by SARA Title III, Section 313:</li> <li>Aluminum Oxide - 1344-28-1</li> </ul>			
Clean Air Act				
Ozone-Depletion : This product neither contains, nor was manufactured with a Class I or Potential : 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).				
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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).					
US State Regulations					
	Aluminum Oxide - 1344-28-1 Potassium Oxide - 12136-45-7				
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Australia AICS New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>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.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>All components of this product are on the Canadian DSL</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>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</li> </ul>				
Philippines PICCS China IECSC Taiwan TCSI	<ul> <li>permitted provided the Korean Importer of Record has themselves notified the substance.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> </ul>				
SECTION 16: Other information					
NFPA Classification :	Health Hazard: 3 Fire Hazard: 0 Reactivity Hazard: 1				
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#### Further information

Legacy SDS Number : 3525

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.

ŀ	Key or legend to abbreviations and a	cronyms use	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%		