

Version 1.0 Revision Date 2025-03-17

according to GB/T 16483 and GB/T 17519

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

#### **Product information**

Product Name : DSCoPAC™ (HV and LV) Polymer Material : 1127588, 1127586, 1127583, 1127582

Use : Drilling Mud Additive

Company : Chevron Phillips Chemical Company LP

**Drilling Specialties Company LLC** 

10001 Six Pines Drive The Woodlands, TX 77380

Local : See Company Address

### **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

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

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

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

Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

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

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Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)

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

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week)

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

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24

hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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

GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2013)

### **Emergency Overview**

### Warning

Form: Powder Physical state: solid Color: White to off-white Odor: Slight Hazards : Causes skin irritation. Causes serious eye irritation.

#### Classification

: Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2A

#### Labeling

Symbol(s)



Signal Word : Warning

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Hazard Statements : H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statements : Prevention:

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/ eye protection/ face protection.

Response:

P302+P352: IF ON SKIN: Wash with plenty of water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P332 + P313: If skin irritation occurs: Get medical advice/

attention.

P337 + P313: If eye irritation persists: Get medical advice/

attention.

P362+P364: Take off contaminated clothing and wash it

before reuse.

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

Synonyms : Polyanionic cellulose (PAC)

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Sodium Carboxymethylcellulose	9004-32-4	50 - 80
Sodium Chloride	7647-14-5	12 - 30
Sodium Glycolate	2836-32-0	8 - 20

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

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance.

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

advice. If symptoms persist, call a physician.

In case of eye contact : 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. 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 : No data available

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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 generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard. Provide appropriate exhaust

ventilation at places where dust is formed.

#### **SECTION 6: Accidental release measures**

Personal precautions : Use personal protective equipment. Avoid dust formation.

Avoid breathing dust.

Environmental precautions : Prevent 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 : 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. Dispose of rinse water in

accordance with local and national regulations.

Advice on protection against fire and explosion

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.

### **Storage**

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the

technological safety standards.

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### SECTION 8: Exposure controls/personal protection

Not applicable

#### **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 : If ventilation or other engineering controls are not adequate to

maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Dusts and Mists / P100. A positive pressure, air-supplying respirator may be appropriate 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. Wear as appropriate:. Protective suit.

Safety shoes.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

### **SECTION 9: Physical and chemical properties**

### Information on basic physical and chemical properties

### **Appearance**

Form : Powder Physical state : solid

Color : White to off-white

Odor : Slight

Odor Threshold : No data available

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Safety data

Flash point : Not applicable

Lower explosion limit : No data available

Upper explosion limit : No data available

: No data available Autoignition temperature

Thermal decomposition : No data available

Molecular weight : Not applicable

: Not applicable pΗ

Freezing point : No data available

Melting point/ range Not applicable

Pour point Not applicable

Boiling point/boiling range : Not applicable

Vapor pressure : No data available

Relative density : Not applicable

Density : 1.5 g/cm3

Water solubility : Not applicable

Partition coefficient: n-

Solubility in other solvents

octanol/water

Evaporation rate

Viscosity, kinematic : No data available

**SECTION 10: Stability and reactivity** 

Reactivity : Stable at normal ambient temperature and pressure.

: No data available

: No data available

: soluble

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

anticipated storage and handling conditions of temperature

and pressure.

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### Possibility of hazardous reactions

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

directed.

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

Materials to avoid : No data available.

Thermal decomposition : No data available

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

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

**DSCoPAC™** (HV and LV) Polymer

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity

Sodium : LC50: > 5800 mg/m3Exposure time: 4 h

Carboxymethylcellulose Species: Rat

Test atmosphere: dust/mist

Sodium Chloride LC50: > 42 mg/l

Exposure time: 1 h Species: Rat Sex: male

Test atmosphere: dust/mist Test substance: yes

**Acute dermal toxicity** 

Sodium Chloride : LD50: > 10,000 mg/kg

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Skin irritation : Skin irritation

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**Eye irritation** : Eye irritation

Genotoxicity in vitro

Sodium Chloride : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

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Further information : Product dust may be irritating to eyes, skin and respiratory

system.

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#### **SECTION 12: Ecological information**

### Ecotoxicity effects Toxicity to fish

Sodium Chloride : LC50: 5,840 mg/l

Exposure time: 96 h

Species: Lepomis macrochirus (Bluegill sunfish)

flow-through test NOEC: 252 mg/l Exposure time: 33 d

Species: Pimephales promelas (fathead minnow)

flow-through test

### Toxicity to daphnia and other aquatic invertebrates

Sodium Chloride : EC50: 1,900 mg/l

Exposure time: 48 h

Species: Daphnia dubia (Water flea)

NOEC: 314 mg/l Exposure time: 21 d

Species: Daphnia pulex (Water flea)

Toxicity to algae

Sodium Chloride : EC50: 2,430 mg/l

Exposure time: 120 h Species: Marine Diatom

Biodegradability : This material is expected to be readily biodegradable.

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility : No data available

Additional ecological

information

: This material is not expected to be harmful to aquatic

organisms.

### **Ecotoxicology Assessment**

Short-term (acute) aquatic

hazard

This material is not expected to be harmful to aquatic

organisms.

Long-term (chronic) aquatic

hazard

: This material is not expected to be harmful to aquatic

organisms.

### **SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

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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.

### 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.

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#### Maritime transport in bulk according to IMO instruments

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

**Notification status** 

Europe REACH : Not in compliance with the inventory Switzerland CH INV : Not in compliance with the inventory

United States of America (USA) : All substances listed as active on the TSCA inventory

**TSCA** 

Canada DSL : All components of this product are on the Canadian

DSL

Australia AIIC : On the inventory, or in compliance with the inventory

New Zealand NZIoC : Not in compliance with the inventory

Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : Not in compliance with the inventory

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

### **SECTION 16: Other information**

#### **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.

Key or legend to abbreviations and acronyms used in the safety data sheet				
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%	
AIIC	Australian Inventory of Industrial Chemicals	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	PRNT	Presumed Not Toxic	

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	Values		
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%	ATE	Acute toxicity estimate

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