

Version 1.15 Revision Date 2023-04-20

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

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

#### 1.1 Product identifier

#### **Product information**

Product Name : Flowzan® Biopolymer

Material : 1123442, 1016765, 1016826, 1016827

1.2

1.3

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses : Drilling Fluid Additive

Supported

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

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

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

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

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

#### 2.1

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture.

### 2.2

# Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

# 2.3

#### Other hazards

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Results of PBT and vPvB

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.

Endocrine disrupting

properties

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

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

#### 3.1 - 3.2

# **Substance or Mixture**

Synonyms None Established

Molecular formula Mixture

### Contains no hazardous ingredients according to GHS. :

Remarks : Contains no hazardous ingredients according to GHS.

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

#### 4.1

# **Description of 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. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

# 4.2 Most important symptoms and effects, both acute and delayed Notes to physician

: No data available. **Symptoms** 

: No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No data available.

# **SECTION 5: Firefighting measures**

Flash point : Not applicable

Autoignition temperature : No data available

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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

: Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on

floors and ledges.

5.3

Advice for firefighters

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.

Hazardous decomposition

products

No data available.

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

6.1

### Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

6.2

**Environmental precautions** 

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3

Methods and materials for containment and cleaning up

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

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

Additional advice : Special exposure hazards arising from the substance or

mixture itself, combustion products, resulting gases Contaminated surfaces will be extremely slippery. Avoid spillage on floor as the product can become very slippery when wet. Sweep up to prevent slipping hazard. 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.

6.4

#### Reference to other sections

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

considerations see section 13.

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

### 7.1

## Precautions for safe handling Handling

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

drinking should be prohibited in the application area.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by

themselves be sufficient.

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.

### 7.2

# Conditions for safe storage, including any incompatibilities

# **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.

German storage class :

: Non Combustible Solids

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

# 8.1

# Control parameters Ingredients with workplace control parameters

### SE

Beståndsdelar	Grundval	Värde	Kontrollparametrar	Anmärkning
Saturated monocarboxylic acid, calcium salt	SE AFS	NGV	5 mg/m3	Totalt damm

# PT

Componentes	Bases	Valor	Parâmetros de controlo	Nota
Calcium Stearate	PT OEL	VLE-MP	10 mg/m3	A4,

A4 Agente não classificável como carcinogénico no Homem.

### LT

Komponentai	Saltinis	Vertė	Kontrolės parametrai	Pastaba
Saturated monocarboxylic acid, calcium salt	LT OEL	IPRD	5 mg/m3	

# ΙE

Components	Basis	Value	Control parameters	Note
Calcium Stearate	IE OEL	OELV - 8 hrs (TWA)	10 mg/m3	

### ES

Componentes	Base	Valor	Parámetros de control	Nota
Saturated monocarboxylic acid, calcium salt	ES VLA	VLA-ED	10 mg/m3	

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#### ВΕ

Bestanddelen	Basis	Waarde	Controleparameters	Opmerking
Saturated monocarboxylic acid,	BE OEL	TGG 8 hr	10 ma/m3	
calcium salt	DE OEL	166 8 111	10 mg/ms	

#### 8.2

# Exposure controls 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 : General industrial hygiene practice.

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

### 9.1

# Information on basic physical and chemical properties

#### **Appearance**

Form : Powder Physical state : solid

Color : Cream to light yellow

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Odor : Slight

Odor Threshold : No data available

Safety data

Flash point : Not applicable

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : 5,5 - 8,5

(as aqueous solution)

Pour point : No data available

Boiling point/boiling range : Not applicable

Vapor pressure : Not applicable

Relative density : 1,4 - 1,6

Water solubility : Completely Soluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, kinematic : No data available

Relative vapor density : Not applicable

Evaporation rate : No data available

# **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.

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10.3

Possibility of hazardous reactions

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

conditions., No hazards to be specially mentioned.

10.4

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

10.5

Materials to avoid : No data available.

10.6

Hazardous decomposition

products

: No data available

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

# **SECTION 11: Toxicological information**

11.1

Information on toxicological effects

Flowzan® Biopolymer

Acute oral toxicity : Presumed Not Toxic

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Acute inhalation toxicity : Presumed Not Toxic

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Acute dermal toxicity : Presumed Not Toxic

11.2

Information on other hazards

Flowzan® Biopolymer

Further information : Dust can cause mechanical irritation of the eyes, skin, and

respiratory tract.

Endocrine disrupting

properties

: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

# **SECTION 12: Ecological information**

12.1

**Toxicity** 

**Ecotoxicity effects** 

**Toxicity to fish** : This material is not expected to be harmful to aquatic

organisms.

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Toxicity to daphnia and other aquatic invertebrates

: This material is not expected to be harmful to aquatic

organisms.

**Toxicity to algae** : This material is not expected to be harmful to aquatic

organisms.

12.2

Persistence and degradability

Biodegradability : Taking into consideration the properties of several ingredients,

the product is estimated to be biodegradable according to

OECD classification.

12.3

**Bioaccumulative potential** 

Elimination information (persistence and degradability)

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.

12.6

**Endocrine disrupting properties** 

Endocrine disrupting

properties

: The substance/mixture does not contain components

considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

12.7

Other adverse effects

Additional ecological

information

: This material is not expected to be harmful to aquatic

organisms.

12.8

**Additional Information** 

**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.

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# **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.

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

handling site for recycling or disposal.

#### **SECTION 14: Transport information**

### 14.1 - 14.7

#### **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

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# OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Maritime transport in bulk according to IMO instruments

# **SECTION 15: Regulatory information**

15.1

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

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)

Water hazard class

(Germany)

: WGK 1 slightly water endangering

15.2

Major Accident Hazard : ZEU\_SEVES3 Update:

**Legislation** Not applicable

Other Registrations

Regulation Registration number

Danish PR number: 1764847

**Notification status** 

Europe REACH : Exemptions from the obligation to register

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

Korea KECI : Not in compliance with the inventory

China IECSC : On the inventory, or in compliance with the inventory

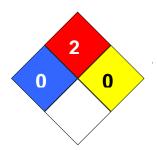
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### **SECTION 16: Other information**

NFPA Classification : Health Hazard: 0

Fire Hazard: 2 Reactivity Hazard: 0



### **Further information**

Legacy SDS Number : 463650

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	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			
AIIC	Australian Inventory of Industrial	LOAEL	Lowest Observed Adverse Effect	
	Chemicals		Level	
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency	
	List			
NDSL	Canada, Non-Domestic	NIOSH	National Institute for Occupational	
	Substances List		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	OSHA	Occupational Safety & Health	
	Scenario Tool		Administration	
EOSCA	European Oilfield Specialty	PEL	Permissible Exposure Limit	
	Chemicals Association		·	
EINECS	European Inventory of Existing	PICCS	Philippines Inventory of	
	Chemical Substances		Commercial Chemical Substances	
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic	
	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	TLV	Threshold Limit Value	
	on Cancer			
IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average	
	Substances in China			
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act	

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	New Chemical Substances		
KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
	Inventory		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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