

# **HE® 100 Polymer**

Version 1.9 Revision Date 2023-11-16

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 : HE® 100 Polymer Material : 1127146, 1016934

#### EC-No.Registration number

Chemical name	CAS-No. EC-No.	Legal Entity Registration number	
	Index No.		
Acrylamide	79-06-1 201-173-7	Chevron Phillips Chemicals International NV 01-2119463260-48-0011	
	616-003-00-0	0. 2.7.6.00200 10 00.7.	
2-Acrylamido-2-	5165-97-9	Chevron Phillips Chemicals International NV	
Methylpropane Sulfonic Acid, Sodium Salt	225-948-4	01-2119495270-39-0016	

1.2

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

Relevant Identified Uses : Completion Fluid Additive

Supported

1.3

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

: Chevron Phillips Chemicals International N.V. Local

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

SDS Number:100000068283 1/13

Version 1.9 Revision Date 2023-11-16

#### 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

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

SDS Number:100000068283 2/13

Version 1.9 Revision Date 2023-11-16

Not a hazardous substance or mixture.

2.2

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

Not a hazardous substance or mixture.

2.3

Other hazards

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 : Polymer

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. Do not give milk or alcoholic

beverages. 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

SDS Number:100000068283 3/13

# **HE® 100 Polymer**

Version 1.9 Revision Date 2023-11-16

Symptoms : No data available.

Risks : 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

5.1

## **Extinguishing media**

Suitable extinguishing

media

: Avoid the use of straight streams that may create a dust cloud

and the risk of a dust explosion.

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 shall be prevented by avoiding 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

: Carbon Dioxide. Carbon oxides.

#### **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 : No special environmental precautions required.

6.3

# Methods and materials for containment and cleaning up

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

promptly by sweeping or vacuum. Keep in suitable, closed

containers for disposal.

SDS Number:100000068283 4/13

# **HE® 100 Polymer**

Version 1.9 Revision Date 2023-11-16

Additional advice : 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.

6.4

Reference to other sections

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

considerations see section 13.

## **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.

Potentially toxic/irritating fumes may be evolved from heated

material.

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.

7.3

**Specific End Use** 

Use : Completion Fluid Additive

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

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.

SDS Number:100000068283 5/13

Version 1.9 Revision Date 2023-11-16

#### 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. A positive pressure, airsupplying 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**

Physical state : solid
Color : White
Odor : no odor

Odor Threshold : Not applicable

Safety data

Flash point : Not applicable

Lower explosion limit : Not applicable

Upper explosion limit : Not applicable

Oxidizing properties : No

Autoignition temperature : No data available

Thermal decomposition : No data available

SDS Number:100000068283 6/13

# **HE® 100 Polymer**

Version 1.9 Revision Date 2023-11-16

Molecular formula : Polymer

Molecular weight : No data available

pH : Not applicable

Pour point : Not applicable

Melting point/range Not applicable

Boiling point/boiling range : Not applicable

Vapor pressure : Not applicable

Relative density : 1,39

at 16 °C (61 °F)

Density : 58 LB/FT3

Water solubility : soluble

Partition coefficient: n-

octanol/water

: No data available

Solubility in other solvents : No data available

Viscosity, kinematic : Not applicable

Relative vapor density : Not applicable

Evaporation rate : Not applicable

Dust deflagration index Kst : > 0,0 m.b\_/s

## **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.

10.3

Possibility of hazardous reactions

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

conditions., No hazards to be specially mentioned.

10.4

SDS Number:100000068283 7/13

# **HE® 100 Polymer**

Version 1.9 Revision Date 2023-11-16

Conditions to avoid : Generation of Dusts.

10.5

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

10.6

Hazardous decomposition

products

: Carbon Dioxide Carbon oxides

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

# **SECTION 11: Toxicological information**

#### 11.1

Information on toxicological effects

HE® 100 Polymer

Acute oral toxicity : LD50: > 5.000 mg/kg

Species: Rat

**HE® 100 Polymer** 

Acute inhalation toxicity : No data available

**HE® 100 Polymer** 

Acute dermal toxicity : No data available

HE® 100 Polymer

**Skin irritation** : No skin irritation

HE® 100 Polymer

**Eye irritation** : No eye irritation

HE® 100 Polymer

**Aspiration toxicity** : No aspiration toxicity classification.

11.2

Information on other hazards

**HE® 100 Polymer** 

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

system.

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

8/13

levels of 0.1% or higher.

SDS Number:100000068283

Version 1.9 Revision Date 2023-11-16

## **SECTION 12: Ecological information**

#### 12.1

**Toxicity** 

**Ecotoxicity effects** 

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

organisms.

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 : This material is not expected to be readily biodegradable.

#### 12.3

## Bioaccumulative potential

Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

## 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

SDS Number:100000068283 9/13

Version 1.9 Revision Date 2023-11-16

#### **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.

#### **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))

NÒT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

SDS Number:100000068283 10/13

Version 1.9 Revision Date 2023-11-16

# 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.

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) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

# 15.2

Major Accident Hazard

Legislation

: 96/82/EC Update: 2003 Directive 96/82/EC does not apply

: ZEU SEVES3 Update:

Not applicable

#### **Notification status**

Europe REACH This product is in full compliance according to REACH

regulation 1907/2006/EC.

Switzerland CH INV Not in compliance with the inventory

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

**TSCA** 

TSCA inventory Australia AIIC On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Japan ENCS

New Zealand NZIoC 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 or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS On the inventory, or in compliance with the inventory

SDS Number:100000068283 11/13

Version 1.9 Revision Date 2023-11-16

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**

NFPA Classification : Health Hazard: 1

Fire Hazard: 2 Reactivity Hazard: 0



#### **Further information**

Legacy SDS Number : 168830

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 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		

SDS Number:100000068283 12/13

# HE® 100 Polymer

Version 1.9 Revision Date 2023-11-16

IECSC	Inventory of Existing Chemical	TWA	Time Weighted Average
	Substances in China		
ENCS	Japan, Inventory of Existing and	TSCA	Toxic Substance Control Act
	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

SDS Number:100000068283 13/13