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

**Product information**
- **Product Name**: HE® 300 Polymer
- **Material**: 1016933
- **Use**: Completion Fluid

**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
  - 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**
- GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)

**Emergency Overview**

**SDS Number**: 100000014330
**Form: Granular**  **Physical state: Solid**  **Color: White**  **Odor: No odor**

**Classification**
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**Labeling**
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

### SECTION 3: Composition/information on ingredients

- **Synonyms**: None Established
- **Molecular formula**: Proprietary
  Contains no hazardous ingredients according to GHS.

### 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. 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
- **Specific hazards during firefighting**: Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges. Hydrocarbon vapors can be trapped in heavily coated or cemented catalysts.
- **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 oxides.

SECTION 6: Accidental release measures

Personal precautions: Avoid dust formation.

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

Methods for cleaning up: Pick up and arrange disposal without creating dust. Clean up promptly by scoop or vacuum. Keep in suitable, closed containers for disposal.

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.

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. 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.

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: Completion Fluid

SECTION 8: Exposure controls/personal protection

Engineering measures

Adequate ventilation to control airborne 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 normal atmospheric pressure. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, 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: Granular
Physical state: Solid
Color: White
Odor: No odor
Odor Threshold: No data available

Safety data
Flash point: Not applicable
Lower explosion limit: Not applicable
Upper explosion limit: Not applicable
Flammability (solid, gas): No
Oxidizing properties: No
Autoignition temperature: Not applicable
Thermal decomposition: No data available
**SAFETY DATA SHEET**

**HE® 300 Polymer**

Version 1.8  
Revision Date 2018-11-09

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Molecular formula</td>
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<td>Molecular weight</td>
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</tr>
<tr>
<td>pH</td>
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<td>Pour point</td>
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<td>Boiling point/boiling range</td>
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<tr>
<td>Vapor pressure</td>
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<td>Relative density</td>
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<tr>
<td>Density</td>
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<td>Viscosity, kinematic</td>
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<tr>
<td>Relative vapor density</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Dust deflagration index Kst</td>
<td>&gt; 0.0 m.b./s</td>
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</tbody>
</table>

**SECTION 10: Stability and reactivity**

**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**  
Hazardous reactions: Hazardous polymerization does not occur.

Further information: Stable under recommended storage conditions., No hazards to be specially mentioned.

**Conditions to avoid**  
No data available.

**Thermal decomposition**  
No data available

**Hazardous decomposition products**  
Carbon oxides

**Other data**  
No decomposition if stored and applied as directed.
HE® 300 Polymer

SECTION 11: Toxicological information

HE® 300 Polymer
Acute oral toxicity : LD50: not known

HE® 300 Polymer
Acute inhalation toxicity : LC50: not known

HE® 300 Polymer
Acute dermal toxicity : LD50: not known

HE® 300 Polymer
Skin irritation : No skin irritation

HE® 300 Polymer
Eye irritation : No eye irritation

HE® 300 Polymer
Aspiration toxicity : No aspiration toxicity classification.

HE® 300 Polymer
Further information : No data available.

SECTION 12: Ecological information

Ecotoxicity effects

Toxicity to fish : LL50: > 1,000 mg/l
Exposure time: 96 h
Species: Scophthalmus maximus (Flatfish, Flounder)
semi-static test Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : > 1,000 mg/l
Exposure time: 48 h
Species: Acartia tonsa (Marine Copepod)
static test Method: ISO TC147/SC5/WG2

Toxicity to algae : ErC50: > 1,000 mg/l
Exposure time: 72 h
Species: Skeletonema costatum (marine diatom)
Growth inhibition Method: ISO 10253

Biodegradability : 0 %
Testing period: 28 d
Method: OECD Test Guideline 306
This material is not expected to be readily biodegradable.

Elimination information (persistence and degradability)

Bioaccumulation : This material is not expected to bioaccumulate.
Information refers to the main ingredient.

Additional ecological information:
This material is not expected to be harmful to aquatic organisms.

No data available

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.

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.

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

SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Notification status</th>
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</thead>
<tbody>
<tr>
<td>Europe REACH</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>United States of America (USA)</td>
<td>On TSCA Inventory</td>
</tr>
<tr>
<td>TSCA</td>
<td></td>
</tr>
<tr>
<td>Canada DSL</td>
<td>Not in compliance with the inventory</td>
</tr>
<tr>
<td>Australia AICS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>New Zealand NZIoC</td>
<td>This substance may be used as a component in a product covered by a group standard but it is not approved for use as a chemical in its own right</td>
</tr>
<tr>
<td>Japan ENCS</td>
<td>Not in compliance with the inventory</td>
</tr>
<tr>
<td>Korea KECI</td>
<td>Not in compliance with the inventory</td>
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<tr>
<td>Philippines PICCS</td>
<td>On the inventory, or in compliance with the inventory</td>
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<tr>
<td>China IECSC</td>
<td>On the inventory, or in compliance with the inventory</td>
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<table>
<thead>
<tr>
<th>Other regulations</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Law on Prevention and Control of Environment Pollution by Solid Waste</td>
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</table>

SECTION 16: Other information

Further information
Legacy SDS Number : 372210

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
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<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
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</table>

SDS Number: 100000014330 8/9
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
<th>Abbreviation</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<tr>
<td>EC50%</td>
<td>Effective Concentration 50%</td>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
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<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<td>IARC</td>
<td>International Agency for Research on Cancer</td>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
<td>TWA</td>
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<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
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<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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<td>LC50</td>
<td>Lethal Concentration 50%</td>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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**SDS Number:** 100000014330