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

**Product information**
- **Product Name**: Liquid Drispac® Polymer
- **Material**: 1082293, 1016797
- **Company**: Chevron Phillips Chemical Company LP
  - Drilling Specialties Company LLC
  - 10001 Six Pines Drive
  - The Woodlands, TX 77380

**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**
This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

**Classification**
- Flammable liquids, Category 4

**Labeling**
- **Signal Word**: Warning
**Liquid Drispac® Polymer**

**Hazard Statements**: H227: Combustible liquid.

**Precautionary Statements**:

**Prevention**:
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P280 Wear protective gloves/eye protection/face protection.

**Response**:
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage**:
- P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal**:
- P501 Dispose of contents/container to an approved waste disposal plant.

**Carcinogenicity**:

**IARC**
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.

**NTP**
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.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymerization bottoms</td>
<td>64741-71-5</td>
<td>40 - 60</td>
</tr>
</tbody>
</table>

**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 skin contact**: If on skin, rinse well with water. If on clothes, remove clothes.

**In case of eye contact**: Flush eyes with water as a precaution. 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

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>76.7°C (170.1°F)</td>
</tr>
<tr>
<td>Method</td>
<td>Tag closed cup</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Suitable extinguishing media</td>
<td>Carbon dioxide (CO2).</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td>High volume water jet.</td>
</tr>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>Wear self-contained breathing apparatus for firefighting if necessary.</td>
</tr>
<tr>
<td>Further information</td>
<td>For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.</td>
</tr>
<tr>
<td>Fire and explosion protection</td>
<td>Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.</td>
</tr>
</tbody>
</table>

### SECTION 6: Accidental release measures

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental precautions</td>
<td>Prevent further leakage or spillage if safe to do so.</td>
</tr>
<tr>
<td>Methods for cleaning up</td>
<td>Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.</td>
</tr>
</tbody>
</table>

### SECTION 7: Handling and storage

#### Handling

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advice on safe handling</td>
<td>Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.</td>
</tr>
<tr>
<td>Advice on protection against fire and explosion</td>
<td>Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.</td>
</tr>
</tbody>
</table>

#### Storage

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Requirements for storage areas and containers</td>
<td>No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.</td>
</tr>
</tbody>
</table>
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 workplace 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. Air-Purifying Respirator for Organic Vapors, Dusts and Mists. 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. Tightly fitting safety goggles.

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. Wear as appropriate: Flame retardant protective clothing. Footwear protecting against chemicals.

Hygiene measures: Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Color: White to off-white, cloudy
Odor: Hydrocarbon

Safety data

Flash point: 76.7°C (170.1°F)
Method: Tag closed cup
Lower explosion limit: No data available
Upper explosion limit: No data available

SDS Number: 100000067775
Liquid Drispac® Polymer

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : Mixture

Molecular weight : Not applicable

pH : No data available

Pour point : No data available

Boiling point/boiling range : 217-237°C (423-459°F)

Vapor pressure : No data available

Relative density : 0.97

Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Viscosity, kinematic : 99447 cSt

Relative vapor density : 3
(Air = 1.0)

Evaporation rate : 1

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 reactions

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

Hazardous reactions: Vapors may form explosive mixture with air.

Further information: No decomposition if stored and applied as directed.

Hazardous reactions: Vapors may form explosive mixture with air.
Liquid Drispac® Polymer

SECTION 11: Toxicological information

**Liquid Drispac® Polymer**

**Acute oral toxicity**
- Acute toxicity estimate: > 5,000 mg/kg
- Method: Calculation method

**Acute inhalation toxicity**
- No data available

**Acute dermal toxicity**
- Acute toxicity estimate: > 2,000 mg/kg
- Method: Calculation method
- Acute toxicity estimate: 2,500 mg/kg
- Method: Calculation method

**Skin irritation**
- May irritate skin.

**Eye irritation**
- No eye irritation

**Sensitization**
- Not a skin sensitizer.
  largely based on animal evidence.

**Repeated dose toxicity**
- Polymerization bottoms: No adverse effects expected

**Reproductive toxicity**
- Polymerization bottoms: No adverse effects expected

**Aspiration toxicity**
- No aspiration toxicity classification.

**Further information**
- No data available.

SECTION 12: Ecological information

**Ecotoxicity effects**
- **Toxicity to fish**
Polymerization bottoms : LL50: > 1,000 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates

Polymerization bottoms : EL50: > 100 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
static test Method: OECD Test Guideline 202

Toxicity to algae

Polymerization bottoms : EL50: > 1,000 mg/l  
Exposure time: 96 h  
Species: Selenastrum capricornutum (green algae)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Polymerization bottoms : NOEC: 5 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
static renewal Method: OECD Test Guideline 211

Biodegradability : Taking into consideration the properties of several ingredients, the product is estimated not to be readily biodegradable according to OECD classification.

Elimination information (persistence and degradability)

Bioaccumulation : The product may be accumulated in organisms.

Mobility : No data available

Results of PBT assessment
Polymerization bottoms : Non-classified PBT substance, Non-classified vPvB substance

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

Ecotoxicology Assessment

Short-term (acute) aquatic hazard
Polymerization bottoms : This product has no known ecotoxicological effects.

Long-term (chronic) aquatic hazard
Polymerization bottoms : This product has no known ecotoxicological effects.
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. Do not burn, or use a cutting torch on, the empty drum.

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.

Testing (ASTM D4206) has shown product does not sustain combustion.

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.

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

SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>National legislation</th>
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<tbody>
<tr>
<td><strong>SARA 311/312 Hazards</strong></td>
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<tr>
<td><strong>CERCLA Reportable Quantity</strong></td>
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<tr>
<td><strong>SARA 302 Reportable Quantity</strong></td>
</tr>
<tr>
<td><strong>SARA 302 Threshold Planning Quantity</strong></td>
</tr>
<tr>
<td><strong>SARA 304 Reportable Quantity</strong></td>
</tr>
<tr>
<td><strong>SARA 313 Components</strong></td>
</tr>
</tbody>
</table>

**Clean Air Act**

Ozone-Depletion Potential: This product neither contains, nor was manufactured with a Class I or 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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

- Sodium Carboxymethylcellulose - 9004-32-4

**US State Regulations**

Pennsylvania Right To Know: No components are subject to the Pennsylvania Right to Know Act.

**Notification status**

- **Europe REACH**: Not in compliance with the inventory
- **Switzerland CH INV**: Not in compliance with the inventory
- **United States of America (USA) TSCA**: All substances listed as active on the TSCA inventory
- **Canada DSL**: All components of this product are on the Canadian DSL
- **Australia AICS**: On the inventory, or in compliance with the inventory
- **New Zealand NZIoC**: Not in compliance with the inventory
- **Japan ENCS**: 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.
- **Philippines PICCS**: On the inventory, or in compliance with the inventory
- **China IECSC**: On the inventory, or in compliance with the inventory
- **Taiwan TCSI**: 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 : 251230

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.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
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<tr>
<td>AICS</td>
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