SAFETY DATA SHEET

DIACEL® LX200 Cement Fluid Loss Additive


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

1.1

Product information

Product Name: DIACEL® LX200 Cement Fluid Loss Additive
Material: 1088906, 1084450

EC-No. Registration number

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No. Registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>01-2119457861-32-XXXX</td>
</tr>
<tr>
<td></td>
<td>202-851-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>601-026-00-0</td>
<td></td>
</tr>
<tr>
<td>1,3-Butadiene</td>
<td>106-99-0</td>
<td>01-2119471988-16-XXXX</td>
</tr>
<tr>
<td></td>
<td>203-450-8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>601-013-00-X</td>
<td></td>
</tr>
</tbody>
</table>

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

Local: Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vinciiaan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com

1.4

Emergency telephone:

SDS Number:100000013405 1/11
SAFETY DATA SHEET

DIACEL® LX200 Cement Fluid Loss Additive

Version 1.5

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

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Eye irritation, Category 2

H319:
Causes serious eye irritation.

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

Hazard pictograms

Signal Word : Warning
Hazard Statements : H319 Causes serious eye irritation.
Precautionary Statements : Prevention:
P264 Wash skin thoroughly after handling.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

SECTION 3: Composition/information on ingredients

3.1 - 3.2 Substance or Mixture

Molecular formula : Mixture

Hazardous ingredients

SDS Number:100000013405
SAFETY DATA SHEET

DIACEL® LX200 Cement Fluid Loss Additive

Version 1.5  Revision Date 2019-08-01

Chemical name | CAS-No. | Classification | Concentration
EC-No. | (REGULATION (EC) No 1272/2008) | [wt%]
---|---|---|---
Ethoxylated, C9-C11-Iso-, C10-Rich Alcohols | 78330-20-8 | Eye Irrit. 2; H319 | 0 - 3

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

<table>
<thead>
<tr>
<th>General advice</th>
<th>If inhaled</th>
<th>In case of skin contact</th>
<th>In case of eye contact</th>
<th>If swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move out of dangerous area. Show this material safety data sheet to the doctor in attendance.</td>
<td>If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.</td>
<td>If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.</td>
<td>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.</td>
<td>Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.</td>
</tr>
</tbody>
</table>

SECTION 5: Firefighting measures

Flash point | Autoignition temperature
---|---
Not applicable | Not applicable

5.1 Extinguishing media

<table>
<thead>
<tr>
<th>Unsuitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>High volume water jet.</td>
</tr>
</tbody>
</table>

5.2 Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Specific hazards during firefighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard procedure for chemical fires.</td>
</tr>
</tbody>
</table>

5.3 Advice for firefighters

<table>
<thead>
<tr>
<th>Special protective equipment for fire-fighters</th>
<th>Further information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wear self-contained breathing apparatus for firefighting if necessary.</td>
<td>Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
DIACEL® LX200 Cement Fluid Loss Additive
Version 1.5
Revision Date 2019-08-01

| Fire and explosion protection | Normal measures for preventive fire protection. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.2 Personal precautions
Use personal protective equipment.

6.3 Environmental precautions
Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

6.4 Methods for cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 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

7.1 Handling

7.2 Conditions for safe storage, including any incompatibilities

7.2 Storage

7.2 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.

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

SDS Number:100000013405 4/11
**Safety Data Sheet**

**DIACLE® LX200 Cement Fluid Loss Additive**

Version 1.5  
Revision Date 2019-08-01

**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. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Full-Face 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: Complete head face and neck protection. Rubber apron. Footwear protecting against chemicals.

**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**

**9.1 Information on basic physical and chemical properties**

**Appearance**

- **Form**: suspension
- **Physical state**: Liquid
- **Color**: Milky white
- **Odor**: Slight

**Safety data**

- **Flash point**: Not applicable
SECTION 10: Stability and reactivity

10.1
Reactivity: No decomposition if stored and applied as directed.

10.2
Chemical stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
**SAFETY DATA SHEET**

**DIACEL® LX200 Cement Fluid Loss Additive**

**Version 1.5**

**Revision Date 2019-08-01**

### Possibility of hazardous reactions

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

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

**10.5 Materials to avoid**: No data available.

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

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**DIACEL® LX200 Cement Fluid Loss Additive**

**Acute oral toxicity**: Acute toxicity estimate: > 2.000 mg/kg

**Method**: Calculation method

**DIACEL® LX200 Cement Fluid Loss Additive**

**Skin irritation**: Mild skin irritation

**DIACEL® LX200 Cement Fluid Loss Additive**

**Eye irritation**: Eye irritation

**Sensitization**


**DIACEL® LX200 Cement Fluid Loss Additive**

**Further information**: No data available.

### SECTION 12: Ecological information

#### 12.1 Toxicity

**Toxicity to fish**

Ethoxylated, C9-C11-Iso-, C10-Rich Alcohols: LC50: > 10 - 100 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

**Toxicity to daphnia and other aquatic invertebrates**

Ethoxylated, C9-C11-Iso-, C10-Rich Alcohols: EC50: > 100 mg/l

Exposure time: 48 h

Species: Daphnia
Method: QSAR modeled data

Toxicity to algae

Ethoxylated, C9-C11-Iso-, C10-Rich Alcohols

EC50: 96.3 mg/l
Exposure time: 96 h
Method: QSAR modeled data

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

Ethoxylated, C9-C11-Iso-, C10-Rich Alcohols
No data available

12.4 Mobility in soil

Mobility

Ethoxylated, C9-C11-Iso-, C10-Rich Alcohols
Substance does not evaporate from water surface into the atmosphere.
Adsorption to solid soil phase is possible.

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 Other adverse effects

Ecotoxicology Assessment

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

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.

Product
Do not dispose of waste into sewer. Do not contaminate

SDS Number: 100000013405
contaminated packaging:
- Empty remaining contents. Dispose of as unused product.
- Do not re-use empty containers.

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 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.
**SAFETY DATA SHEET**

**DIACEL® LX200 Cement Fluid Loss Additive**

Version 1.5  
Revision Date 2019-08-01

## SECTION 15: Regulatory information

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

**National legislation**


### 15.2 Major Accident Hazard Legislation

<table>
<thead>
<tr>
<th>Notification status</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe REACH</td>
<td>96/82/EC</td>
</tr>
<tr>
<td>Switzerland CH INV</td>
<td>Not applicable</td>
</tr>
<tr>
<td>United States of America (USA) TSCA</td>
<td></td>
</tr>
<tr>
<td>Canada DSL</td>
<td>All components of this product are on the Canadian DSL</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>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Japan ENCS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Korea KECI</td>
<td>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.</td>
</tr>
<tr>
<td>Philippines PICCS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>China IECSC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>Taiwan TCSI</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
</tbody>
</table>

## SECTION 16: Other information

**NFPA Classification**

<table>
<thead>
<tr>
<th>Health Hazard</th>
<th>Fire Hazard</th>
<th>Reactivity Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

**Further information**

Legacy SDS Number: CPC00288

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>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
</tr>
<tr>
<td>EC50%</td>
<td>Effective Concentration 50%</td>
</tr>
<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
</tr>
<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
</tr>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
</tr>
<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
</tr>
<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
</tr>
<tr>
<td>&lt;=</td>
<td>Less Than or Equal To</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
</tr>
<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
</tbody>
</table>

**Full text of H-Statements referred to under sections 2 and 3.**

**H319** Causes serious eye irritation.

**SDS Number:** 100000013405 11/11