SAFETY DATA SHEET
Cola®Lipid BP

1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>Cola®Lipid BP</td>
</tr>
<tr>
<td><strong>Product number</strong></td>
<td>3812</td>
</tr>
<tr>
<td><strong>INCI Name</strong></td>
<td>Sodium Borageamidopropyl PG-Dimonium Chloride Phosphate</td>
</tr>
</tbody>
</table>

**Recommended use of the chemical and restrictions on use**

- **Application**: Surfactant
- **Uses advised against**: No specific uses advised against are identified.

**Details of the supplier of the safety data sheet**

- **Manufacturer**: Colonial Chemical, Inc.
  225 Colonial Drive
  South Pittsburg, TN 37380
  U.S.A.
  +1 (423) 837-8800

**Emergency telephone number**

- **Emergency telephone**: Toll free (in USA, Canada, Puerto Rico, Virgin Islands only): 1-800-424-9300
  Direct dial: +1 703-527-3887

2. Hazard(s) identification

**Classification of the substance or mixture**

- **Physical hazards**: Not Classified
- **Health hazards**: Eye Irrit. 2A - H319

**Label elements**

**Hazard symbols**

- **Signal word**: Warning

**Hazard statements**

- H319 Causes serious eye irritation.

**Precautionary statements**

- P264 Wash contaminated skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- 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.

**Other hazards**

This product does not contain any substances classified as PBT or vPvB.
Cola®Lipid BP

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>1-Propanaminium, 3,3′,3″-[phosphinylidynetris(oxy)]tris[N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-, N,N′,N″-tri-C6-18 acyl derivs. trichlorides</th>
<th>30-60%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 83682-78-4</td>
<td></td>
</tr>
</tbody>
</table>

Classification

Eye Irrit. 2A - H319
Not relevant.

The full text for all hazard statements is displayed in Section 16.

Composition comments * The identity or exact percentage is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information
If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.

Ingestion
Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.

Skin Contact
Rinse with water.

Eye contact
Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
No specific symptoms known.

Ingestion
No specific symptoms known.

Skin contact
No specific symptoms known.

Eye contact
No specific symptoms known. May be slightly irritating to eyes.

Indication of immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture
Cola®Lipid BP

Specific hazards
Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

Advice for firefighters
Protective actions during firefighting
Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapors and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters
Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots and gloves will provide a basic level of protection for chemical incidents.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.

Environmental precautions
Environmental precautions
Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

Methods and material for containment and cleaning up

Methods for cleaning up
Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

Reference to other sections
For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling
Usage precautions
Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities
Cola®Lipid BP

Storage precautions
Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.

Storage class
Miscellaneous hazardous material storage.

Specific end use(s)
The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection
No specific hand protection recommended. Avoid contact with skin.

Other skin and body protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures
Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection
Ensure all respiratory protective equipment is suitable for its intended use and is NIOSH approved. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with OSHA 1910.134. Full face mask respirators with replaceable filter cartridges should comply with OSHA 1910.134. Half mask and quarter mask respirators with replaceable filter cartridges should comply with OSHA 1910.134.

Environmental exposure controls
Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance
Liquid.

Color
Amber.

Odor
Characteristic.

Odor threshold
Not available.

pH (10% aqueous):
6.5 - 7.5

Melting point
Not available.

Initial boiling point and range
>93°C

Flash point
> 93°C Pensky-Martens closed cup.

Evaporation rate
Not available.
Cola®Lipid BP

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td></td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.03 g/mL @ 25°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Dispersible in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Other information</td>
<td>None.</td>
</tr>
<tr>
<td>Surface Tension</td>
<td></td>
</tr>
<tr>
<td>% Solids</td>
<td>10. Stability and reactivity</td>
</tr>
<tr>
<td>Reactivity</td>
<td>See the other subsections of this section for further details.</td>
</tr>
<tr>
<td>Stability</td>
<td>Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>No potentially hazardous reactions known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>There are no known conditions that are likely to result in a hazardous situation.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>No specific material or group of materials is likely to react with the product to produce a hazardous situation.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.</td>
</tr>
</tbody>
</table>

11. Toxicological information

Information on toxicological effects

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Notes (oral LD₅₀)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - oral</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute toxicity - dermal</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
<tr>
<td>Acute toxicity - inhalation</td>
<td>Based on available data the classification criteria are not met.</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Cola®Lipid BP

Skin corrosion/irritation Based on available data the classification criteria are not met.
Serious eye damage/irritation Causes eye irritation.
Respiratory sensitization Based on available data the classification criteria are not met.
Skin sensitization Based on available data the classification criteria are not met.
Germ cell mutagenicity Based on available data the classification criteria are not met.
Carcinogenicity Based on available data the classification criteria are not met.
IARC carcinogenicity None of the ingredients are listed or exempt.
Reproductive toxicity Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard Based on available data the classification criteria are not met.
General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation No specific symptoms known.
Ingestion No specific symptoms known.
Skin Contact No specific symptoms known.
Eye contact No specific symptoms known.
Target Organs No specific target organs known.

12. Ecological information

Toxicity Aquatic Acute 1 - H400 Very toxic to aquatic life.
Acute aquatic toxicity
Acute toxicity - aquatic NOEC, 48 hours: 2.5 mg/l, Daphnia magna
Invertebrates EC₅₀, 48 hours: 3.077 mg/l, Daphnia magna
Acute toxicity - aquatic plants NOEC, 72 hours: 0.125 mg/l, Pseudokirchneriella subcapitata
EC₅₀, 72 hours: 0.19 mg/l, Pseudokirchneriella subcapitata
Cola®Lipid BP

Acute toxicity - microorganisms
NOEC, 28 days: 500 mg/l, Activated sludge
EC₅₀, 28 days: 495.48 mg/l, Activated sludge

Persistence and degradability
The product is readily biodegradable.

Bioaccumulative potential
Bio-Accumulative Potential
No data available on bioaccumulation.

Partition coefficient
Not available.

Mobility in soil
No data available.

Other adverse effects
None known.

13. Disposal considerations

Waste treatment methods
General information
The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods
Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

14. Transport information

General
For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

UN Number
UN No. (TDG) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (DOT) Not regulated

UN proper shipping name
Proper shipping name (TDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Borageamidopropyl PGDimonium Chloride Phosphate)
Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Borageamidopropyl PGDimonium Chloride Phosphate)
Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Borageamidopropyl PGDimonium Chloride Phosphate)
Proper shipping name (DOT) Not Regulated
## Cola®Lipid BP

### Transport hazard class(es)

<table>
<thead>
<tr>
<th>DOT hazard class</th>
<th>Not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT hazard label</td>
<td>Not regulated</td>
</tr>
<tr>
<td>TDG class</td>
<td>9</td>
</tr>
<tr>
<td>TDG label(s)</td>
<td>9</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>9</td>
</tr>
<tr>
<td>ICAO class/division</td>
<td>9</td>
</tr>
</tbody>
</table>

### Transport labels

- Packing group
  - TDG Packing Group: III
  - IMDG packing group: III
  - ICAO packing group: III
  - DOT packing group: Not regulated

### Environmental hazards

- Environmentally Hazardous Substance

### Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

| EmS | F-A, S-F |

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

### 15. Regulatory information

#### US Federal Regulations

- SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
  - None of the ingredients are listed or exempt.

- CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
  - None of the ingredients are listed or exempt.

- SARA Extremely Hazardous Substances EPCRA Reportable Quantities
  - None of the ingredients are listed or exempt.

- SARA 313 Emission Reporting
  - None of the ingredients are listed or exempt.
Cola®Lipid BP

CAA Accidental Release Prevention
None of the ingredients are listed or exempt.

FDA - Essential Chemical
None of the ingredients are listed or exempt.

FDA - Precursor Chemical
None of the ingredients are listed or exempt.

SARA (311/312) Hazard Categories
None of the ingredients are listed or exempt.

OSHA Highly Hazardous Chemicals
None of the ingredients are listed or exempt.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed or exempt.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed or exempt.

California Directors List of Hazardous Substances
None of the ingredients are listed or exempt.

Massachusetts "Right To Know" List
The following ingredients are listed or exempt:

Rhode Island "Right To Know" List
The following ingredients are listed or exempt:

Minnesota "Right To Know" List
The following ingredients are listed or exempt:

New Jersey "Right To Know" List
The following ingredients are listed or exempt:

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:

Inventories
EU - REACH
Registered 01-2120763938-35-XXXX

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed or exempt.
Cola®Lipid BP

Australia - AICS
All the ingredients are listed or exempt.

Japan - ENCS
Not listed.

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

China - IECIC

Philippines - PICCS
All the ingredients are listed or exempt.

New Zealand - NZIOC
All the ingredients are listed or exempt.

Taiwan - TCSI
All the ingredients are listed or exempt.

16. Other information

Abbreviations and acronyms used in the safety data sheet

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>The transport of dangerous goods act</td>
</tr>
<tr>
<td>IATA</td>
<td>International air transport association.</td>
</tr>
<tr>
<td>ICAO</td>
<td>Technical instructions for the safe transport of dangerous goods by air.</td>
</tr>
<tr>
<td>IMDG</td>
<td>International maritime dangerous goods.</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical abstracts service.</td>
</tr>
<tr>
<td>ATE</td>
<td>Acute toxicity estimate.</td>
</tr>
<tr>
<td>LC₅₀</td>
<td>Lethal concentration to 50% of a test population.</td>
</tr>
<tr>
<td>LD₅₀</td>
<td>Lethal dose to 50% of a test population (median lethal dose).</td>
</tr>
<tr>
<td>EC₅₀</td>
<td>50% of maximal effective concentration.</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, bioaccumulative and toxic substance.</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very persistent and very bioaccumulative.</td>
</tr>
</tbody>
</table>

Classification abbreviations and acronyms

Aquatic Acute = Hazardous to the aquatic environment (acute)

Training advice

Only trained personnel should use this material.

Issued by

Regulatory Affairs Department

Revision date

6/4/2018

Revision

6

Supersedes date

3/8/2018

SDS No.

5124

Hazard statements in full

H319 Causes serious eye irritation.

End of SDS

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.