SAFETY DATA SHEET
Cola®Lipid C

1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
</tr>
<tr>
<td>Product number</td>
</tr>
<tr>
<td>INCI Name</td>
</tr>
</tbody>
</table>

Recommended use of the chemical and restrictions on use

<table>
<thead>
<tr>
<th>Application</th>
<th>Surfactant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uses advised against</td>
<td>No specific uses advised against are identified.</td>
</tr>
</tbody>
</table>

Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Colonial Chemical, Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>225 Colonial Drive</td>
</tr>
<tr>
<td></td>
<td>South Pittsburg, TN 37380</td>
</tr>
<tr>
<td></td>
<td>U.S.A.</td>
</tr>
<tr>
<td></td>
<td>+1 (423) 837-8800</td>
</tr>
</tbody>
</table>

Emergency telephone number

<table>
<thead>
<tr>
<th>Emergency telephone number</th>
<th>Toll free (in USA, Canada, Puerto Rico, Virgin Islands only): 1-800-424-9300</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Direct dial: +1 703-527-3887</td>
</tr>
</tbody>
</table>

2. Hazard(s) Identification

Classification of the substance or mixture

<table>
<thead>
<tr>
<th>Physical hazards</th>
<th>Not Classified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazards</td>
<td>Eye Irrit. 2A - H319</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Aquatic Acute 1 - H400</td>
</tr>
</tbody>
</table>

Label elements

Hazard symbols

Signal word

Warning

Hazard statements

H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
Cola®Lipid C

Precautionary statements
- P264 Wash contaminated skin thoroughly after handling.
- P273 Avoid release to the environment.
- 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.
- P391 Collect spillage.
- P501 Dispose of contents/ container in accordance with national regulations.

Other hazards
This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Mixtures</th>
<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:</td>
<td>83682-78-4</td>
<td></td>
</tr>
<tr>
<td>M factor (Acute)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>
| Classification | Eye Irrit. 2A - H319  
Aquatic Acute 1 - H400 |

| Glycerol | 1-5% |
| CAS number: | 56-81-5 |
| Classification | Not Classified |

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 | Get medical attention if any discomfort continues. 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 | Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. 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
Cola®Lipid C

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
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

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.
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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

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

Control parameters

Occupational exposure limits

Glycerol

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³ respirable fraction
Long-term exposure limit (8-hour TWA): OSHA 15 mg/m³ total dust
OSHA = Occupational Safety and Health Administration.

Exposure controls

Protective equipment

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

Appropriate engineering controls

Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Cola®Lipid C

**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

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Color</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
</tr>
<tr>
<td><strong>pH (10% aqueous):</strong></td>
</tr>
<tr>
<td><strong>Melting point</strong></td>
</tr>
<tr>
<td><strong>Initial boiling point and range</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
</tr>
<tr>
<td><strong>Upper/lower flammability or explosive limits</strong></td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
</tr>
<tr>
<td><strong>Auto-ignition temperature</strong></td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
</tr>
<tr>
<td><strong>Explosive properties</strong></td>
</tr>
<tr>
<td><strong>Oxidizing properties</strong></td>
</tr>
<tr>
<td><strong>Other information</strong></td>
</tr>
</tbody>
</table>
Cola®Lipid C

Surface Tension

% Solids

10. Stability and reactivity

Reactivity
See the other subsections of this section for further details.

Stability
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

Possibility of hazardous reactions
No potentially hazardous reactions known.

Conditions to avoid
There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid
No specific material or group of materials is likely to react with the product to produce a hazardous situation.

Hazardous decomposition products
Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral
Notes (oral LD₅₀)
Based on available data the classification criteria are not met.

Acute toxicity - dermal
Notes (dermal LD₅₀)
Based on available data the classification criteria are not met.

Acute toxicity - inhalation
Notes (inhalation LC₅₀)
Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation
Based on available data the classification criteria are not met.

Animal data

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory sensitization

Respiratory sensitization
Based on available data the classification criteria are not met.

Skin sensitization

Skin sensitization
Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro
Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity
Based on available data the classification criteria are not met.

IARC carcinogenicity
None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility
Based on available data the classification criteria are not met.
Cola®Lipid C

Reproductive toxicity - development
Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure
STOT - single exposure
Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure
STOT - 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
Irritating to eyes.

Route of exposure
Ingestion, Inhalation, Skin and/or eye contact

Target Organs
No specific target organs known.

12. Ecological information

Toxicity
Aquatic Acute 1 - H400 Very toxic to aquatic life.

Acute aquatic toxicity
NOEC, 48 hours: 2.5 mg/l, Daphnia magna
EC₅₀, 48 hours: 3.077 mg/l, Daphnia magna

Acute toxicity - aquatic invertebrates
NOEC, 72 hours: 0.125 mg/l, Pseudokirchneriella subcapitata
EC₅₀, 72 hours: 0.19 mg/l, Pseudokirchneriella subcapitata

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

Persistence and degradability
The degradability of the product is not known.

Biodegradation
The product is readily biodegradable.
This product meets the criteria for a surfactant under the EU Detergents Regulation (EC) 648/2004.

Bioaccumulative potential
No data available on bioaccumulation.

Partition coefficient
Not available.

Mobility in soil
No data available.

Mobility

Other adverse effects
None known.
Cola®Lipid C

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

DOT transport notes
Class 9 Special Provision: Use of the Class 9 classification, including markings, is not required for domestic ground transportation in USA if the material does not meet the definition of a hazardous waste or hazardous substance as defined in 49 CFR 171.8, even though it is designated as environmentally hazardous by another Competent Authority. Ref: 49 CFR 172.102(c)(1)(Provision 146).

UN Number

UN No. (TDG) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (DOT) Not Hazardous

UN proper shipping name

Proper shipping name (TDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 1-Propanaminium, 3,3′,3″-[phosphinylidinetris(oxy)]tris[N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-, N,N’,N”-tri-C6-18 acyl derivs. trichlorides, Amines, coco alklydimethyl)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 1-Propanaminium, 3,3′,3″-[phosphinylidinetris(oxy)]tris[N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-, N,N’,N”-tri-C6-18 acyl derivs. trichlorides, Amines, coco alklydimethyl)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 1-Propanaminium, 3,3′,3″-[phosphinylidinetris(oxy)]tris[N-(3-aminopropyl)-2-hydroxy-N,N-dimethyl-, N,N’,N”-tri-C6-18 acyl derivs. trichlorides, Amines, coco alklydimethyl)

Transport hazard class(es)

TDG class 9
TDG label(s) 9
IMDG Class 9
ICAO class/division 9
Transport labels

8/11
Cola®Lipid C

Packing group
TDG Packing Group III
IMDG packing group III
ICAO packing group III

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

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.

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.
Cola®Lipid C

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:
3-aminopropyl(dimethyl)amine
Glycerol

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

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

New Jersey "Right To Know" List
The following ingredients are listed or exempt:
3-aminopropyl(dimethyl)amine
Glycerol

Pennsylvania "Right To Know" List
The following ingredients are listed or exempt:
3-aminopropyl(dimethyl)amine
Glycerol

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

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

US - TSCA
All the ingredients are listed or exempt.

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

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
Listed as Cocamidopropyl PG-Dimonium Chloride Phosphate.
Cola®Lipid C

Philippines - PICCS
All the ingredients are listed or exempt.

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

Taiwan - NECI
All the ingredients are listed or exempt.

<table>
<thead>
<tr>
<th>16. Other information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Classification abbreviations and acronyms</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Training advice</strong></td>
</tr>
<tr>
<td><strong>Issued by</strong></td>
</tr>
<tr>
<td><strong>Revision date</strong></td>
</tr>
<tr>
<td><strong>Revision</strong></td>
</tr>
<tr>
<td><strong>Supersedes date</strong></td>
</tr>
<tr>
<td><strong>SDS No.</strong></td>
</tr>
<tr>
<td><strong>Hazard statements in full</strong></td>
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</tbody>
</table>

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.