SAFETY DATA SHEET
Cola®Quat SME

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

1.1. Product identifier
Product name     Cola®Quat SME
Product number   3789
INCI Name        Soyethyl Morpholinium Ethosulfate
REACH registration number 01-2120763656-43-XXXX
EC number        263-167-0

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses     Surfactant
Uses advised against No specific uses advised against are identified.

1.3. 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

1.4. 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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards     Not Classified
Health hazards        Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements
EC number    263-167-0
Hazard statements NC Not Classified
Contains     Onium compounds, morpholinium, 4-ethyl-4-soya alkyl, Et sulfates

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Cola®Quat SME

### Onium compounds, morpholinium, 4-ethyl-4-soya alkyl, Et sulfates

<table>
<thead>
<tr>
<th>CAS number: 61791-34-2</th>
<th>EC number: 263-167-0</th>
<th>REACH registration number: 01-2120763656-43-XXXX</th>
</tr>
</thead>
<tbody>
<tr>
<td>M factor (Acute) = 1</td>
<td>M factor (Chronic) = 1</td>
<td></td>
</tr>
</tbody>
</table>

#### Classification
- Acute Tox. 4 - H302
- Skin Irrit. 2 - H315
- Eye Dam. 1 - H318
- Aquatic Acute 1 - H400
- Aquatic Chronic 1 - H410

### Diethyl Sulfate

<table>
<thead>
<tr>
<th>CAS number: 64-67-5</th>
<th>EC number: 200-589-6</th>
</tr>
</thead>
</table>

#### Classification
- Acute Tox. 4 - H302
- Acute Tox. 4 - H312
- Acute Tox. 4 - H332
- Skin Corr. 1B - H314
- Eye Dam. 1 - H318
- Muta. 1B - H340
- Carc. 1B - H350

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. 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. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Get medical attention if symptoms are severe or persist.

#### Skin contact
Rinse with water.

#### Eye contact
Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

### 4.2. 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.
Cola®Quat SME

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Treat symptomatically.

SECTION 5: Firefighting measures

5.1. 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.

5.2. Special hazards arising from the substance or mixture

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

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapours. 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 vapours 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. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. 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.

6.2. Environmental precautions

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

6.3. 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. Provide adequate ventilation. 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.
Cola®Quat SME

6.4. Reference to other sections

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.

SECTION 7: Handling and storage

7.1. 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 minimise 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. Wash contaminated clothing before reuse.

7.2. 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.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Diethyl Sulfate

Long-term exposure limit (8-hour TWA): WEL 0.05 ppm 0.32 mg/m³
Carc, Sk

WEL = Workplace Exposure Limit
Carc = Capable of causing cancer and/or heritable genetic damage.
Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls

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

Eye/face protection

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

Hand protection

Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Cola®Quat SME

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 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid.

Colour

Amber.

Odour

Characteristic.

Odour threshold

Not available.

pH (as is):

7 - 8

Melting point

Not available.

Initial boiling point and range

>100°C

Flash point

> 300°C Pensky-Martens closed cup.

Evaporation rate

Not available.

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Not applicable.

Vapour pressure

Not available.

Vapour density

Not available.

Relative density

1.01 @ 25°C

Solubility(ies)

Dispersible in water.

Partition coefficient

Not available.

Auto-ignition temperature

Not available.

Decomposition Temperature

Not available.

Viscosity

Not available.

Explosive properties

Not applicable.

Oxidising properties

Not applicable.

9.2. Other information
Cola®Quat SME

**Volutility**
65% by vol.

**Surface Tension**

**% Solids**

<table>
<thead>
<tr>
<th>SECTION 10: Stability and reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10.1. Reactivity</strong></td>
</tr>
<tr>
<td>Reactivity</td>
</tr>
<tr>
<td><strong>10.2. Chemical stability</strong></td>
</tr>
<tr>
<td>Stability</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>10.3. Possibility of hazardous reactions</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Possibility of hazardous reactions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>10.4. Conditions to avoid</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to avoid</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>10.5. Incompatible materials</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials to avoid</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>10.6. Hazardous decomposition products</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous decomposition products</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SECTION 11: Toxicological information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>11.1. Information on toxicological effects</strong></td>
</tr>
<tr>
<td>Acute toxicity - oral</td>
</tr>
<tr>
<td>Notes (oral LD₅₀)</td>
</tr>
<tr>
<td>ATE oral (mg/kg)</td>
</tr>
</tbody>
</table>

| 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                | Irritating to skin. |

| Serious eye damage/irritation            |
| Serious eye damage/irrititation          | Eye Dam. 1 - H318 Causes serious eye damage. |

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

| Skin sensitisation                      |
| Skin sensitisation                      | 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. |
Cola®Quat SME

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

**IARC carcinogenicity**
Contains a substance which has been shown to cause cancer in laboratory animals. IARC Group 2A Probably carcinogenic to humans.

**Reproductive toxicity**
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**
May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

**Skin contact**
Redness. Irritating to skin.

**Eye contact**
Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

**Target organs**
No specific target organs known.

**SECTION 12: Ecological Information**

**Ecotoxicity**
Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

**12.1. Toxicity**

**Toxicity**
Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

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

**12.3. Bioaccumulative potential**

**Bioaccumulative potential**
No data available on bioaccumulation.

**Partition coefficient**
Not available.

**12.4. Mobility in soil**

**Mobility**
No data available.

**12.5. Results of PBT and vPvB assessment**
12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information
The generation of waste should be minimised 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, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

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

14.1. UN number
UN No. (ADR/RID) 3082
UN No. (IMDG) 3082
UN No. (ICAO) 3082
UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Onium compounds, morpholinium, 4-ethyl-4-soya alkyl, Et sulfates)
Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Onium compounds, morpholinium, 4-ethyl-4-soya alkyl, Et sulfates)
Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Onium compounds, morpholinium, 4-ethyl-4-soya alkyl, Et sulfates)
Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Onium compounds, morpholinium, 4-ethyl-4-soya alkyl, Et sulfates)

14.3. Transport hazard class(es)

ADR/RID class 9
ADR/RID classification code M6
ADR/RID label 9
IMDG class 9
ICAO class/division 9
ADN class 9
Cola®Quat SME

Transport labels

14.4. Packing group
ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant

14.6. 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
ADR transport category 3
Emergency Action Code •3Z
Hazard Identification Number (ADR/RID) 90
Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.


15.2. Chemical safety assessment
No chemical safety assessment has been carried out.
Cola®Quat SME

Inventories

EU - REACH Registered - 01-2120763656-43-XXXX

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

US - TSCA
All the ingredients are listed or exempt.

Australia - AICS
All the ingredients are listed or exempt.

Japan - ENCS
Not determined

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

China - IECIC Listed as Soyethyl Morpholinium Ethosulfate

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.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC₅₀: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms
Acute Tox. = Acute toxicity
Eye Dam. = Serious eye damage
Skin Irrit. = Skin irritation
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Cola®Quat SME

Classification procedures according to Regulation (EC) 1272/2008


Training advice

Only trained personnel should use this material.

Issued by

Regulatory Affairs Department

Revision date

25/04/2019

Revision

9

Supersedes date

01/02/2019

SDS number

5118

Hazard statements in full

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.