



## SAFETY DATA SHEET

### Cola@Mulse FE

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name** Cola@Mulse FE

**Product number** 3535

##### 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  
(423) 837-8800

##### Emergency telephone number

**Emergency telephone** (800) 424-9300

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2A - H319

**Environmental hazards** Not Classified

##### Label elements

##### Pictogram



**Signal word** Warning

**Hazard statements** H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements** P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P302+P352 If on skin: Wash with plenty of water.  
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see medical advice on this label).  
P332+P313 If skin irritation occurs: Get medical advice/ attention.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>Poly(oxy-1,2-ethanediyl), <math>\alpha</math>-(1-oxododecyl)-<math>\omega</math>-hydroxy-</b>	<b>60-100%</b>
CAS number: 9004-81-3	

#### Classification

Not Classified

<b>3,6,9,12-Tetraoxatetracosan-1-ol</b>	<b>10-30%</b>
CAS number: 5274-68-0	

#### Classification

Skin Irrit. 2 - H315  
Eye Irrit. 2A - H319

<b>1,4-dioxane</b>	<b>&lt;0.1%</b>
CAS number: 123-91-1	

#### Classification

Flam. Liq. 2 - H225  
Eye Irrit. 2A - H319  
Carc. 2 - H351  
STOT SE 3 - H335

<b>ethylene oxide</b>	<b>&lt;0.1%</b>
CAS number: 75-21-8	

#### Classification

Flam. Gas 1 - H220  
Acute Tox. 3 - H331  
Skin Irrit. 2 - H315  
Eye Irrit. 2A - H319  
Muta. 1B - H340  
Carc. 1B - H350  
STOT SE 3 - H335

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 in accordance with 29 CFR 1910.1200.

### 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.

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<b>Inhalation</b>	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.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Get medical advice/attention if you feel unwell. Do not induce vomiting unless under the direction of medical personnel.
<b>Skin Contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse with water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Get medical attention if any discomfort continues.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

### Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause irritation.
<b>Skin contact</b>	Redness. Irritating to skin.
<b>Eye contact</b>	Irritating to eyes.

### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
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## 5. Fire-fighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	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.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Containers can burst violently or explode when heated, due to excessive pressure build-up.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapors.

### Advice for firefighters

<b>Protective actions during firefighting</b>	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. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	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

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**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.

### 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. 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.

**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** Chemical storage.

### Specific end uses(s)

**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

##### **1,4-dioxane**

Long-term exposure limit (8-hour TWA): ACGIH 20 ppm 72 mg/m<sup>3</sup>  
A3, Sk

Long-term exposure limit (8-hour TWA): OSHA 100 ppm 360 mg/m<sup>3</sup>  
Sk

##### **ethylene oxide**

Long-term exposure limit (8-hour TWA): ACGIH 1 ppm 1.8 mg/m<sup>3</sup>  
A2

Long-term exposure limit (8-hour TWA): OSHA 1 ppm

Short-term exposure limit (15-minute): OSHA 5 ppm

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ACGIH = American Conference of Governmental Industrial Hygienists.  
 A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
 A2 = Suspected Human Carcinogen.  
 Sk = Danger of cutaneous absorption.  
 OSHA = Occupational Safety and Health Administration.

### 1,4-dioxane (CAS: 123-91-1)

**Immediate danger to life and health** 500 ppm

### ethylene oxide (CAS: 75-21-8)

**Immediate danger to life and health** 800 ppm

### 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 OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. 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.

#### 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.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

Appearance	Liquid.
Color	Yellow.
Odor	Characteristic.

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<b>Odor threshold</b>	Not available.
<b>pH (10% aqueous):</b>	6.0 - 8.0
<b>pH (20% Aqueous)</b>	
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	>100°C
<b>Flash point</b>	> 150°C PMCC (Pensky-Martens closed cup).
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Limited solubility in water
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not applicable.
<b>Oxidizing properties</b>	Not applicable.
<b>Other information</b>	None.
<b>Pour Point</b>	
<b>Freezing Point</b>	

### 10. Stability and reactivity

<b>Reactivity</b>	See the other subsections of this section for further details.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
<b>Possibility of hazardous reactions</b>	No potentially hazardous reactions known.
<b>Conditions to avoid</b>	There are no known conditions that are likely to result in a hazardous situation.
<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
<b>Hazardous decomposition products</b>	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

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### Information on toxicological effects

#### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

#### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** 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/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**

Contains a substance/a group of substances which may cause cancer. IARC Group 1  
Carcinogenic to humans.

#### Reproductive toxicity

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

**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

**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 irritation.

**Skin Contact** Redness. Irritating to skin.

**Eye contact** Irritating to eyes.

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

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

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### 12. Ecological Information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
<b>Toxicity</b>	Based on available data the classification criteria are not met.
<b><u>Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The degradability of the product is not known.
<b><u>Bioaccumulative potential</u></b>	
<b>Bio-Accumulative Potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	Not available.
<b><u>Mobility in soil</u></b>	
<b>Mobility</b>	No data available.
<b><u>Other adverse effects</u></b>	
<b>Other adverse effects</b>	None known.

### 13. Disposal considerations

#### **Waste treatment methods**

<b>General information</b>	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.
<b>Disposal methods</b>	Do not empty into drains.

### 14. Transport information

<b>General</b>	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).
<b><u>UN Number</u></b>	
Not applicable.	
<b><u>UN proper shipping name</u></b>	
Not applicable.	
<b><u>Transport hazard class(es)</u></b>	
No transport warning sign required.	
<b><u>Transport labels</u></b>	
No transport warning sign required.	
<b><u>DOT transport labels</u></b>	
No transport warning sign required.	
<b><u>Packing group</u></b>	
Not applicable.	
<b><u>Environmental hazards</u></b>	



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### Environmentally Hazardous Substance

No.

### Special precautions for user

Not applicable.

**DOT TIH Zone** Not applicable.

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

## 15. Regulatory information

### US Federal Regulations

#### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

The following ingredients are listed or exempt:

*ethylene oxide*

EPCRA 302 TPQ 1000 lbs Tier II TPQ 500 lbs

#### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

The following ingredients are listed or exempt:

*1,4-dioxane*

Final CERCLA RQ: 100(45.4) pounds (Kilograms)

*ethylene oxide*

Final CERCLA RQ: 10(4.54) pounds (Kilograms)

#### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

#### **SARA 313 Emission Reporting**

The following ingredients are listed or exempt:

*1,4-dioxane*

0.1 %

*ethylene oxide*

0.1 %

#### **CAA Accidental Release Prevention**

The following ingredients are listed or exempt:

*ethylene oxide*

Threshold Quantity: 10000 lbs

#### **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**

The following ingredients are listed or exempt:

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*ethylene oxide*

Threshold Quantity: 5000 lbs

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

The following ingredients are listed or exempt:

*1,4-dioxane*

Known to the State of California to cause cancer.

*ethylene oxide*

Known to the State of California to cause cancer, developmental, female and male reproductive toxicity.

#### **California Air Toxics "Hot Spots" (A-I)**

The following ingredients are listed or exempt:

*1,4-dioxane*

*ethylene oxide*

#### **California Air Toxics "Hot Spots" (A-II)**

None of the ingredients are listed or exempt.

#### **California Directors List of Hazardous Substances**

The following ingredients are listed or exempt:

*1,4-dioxane*

*ethylene oxide*

#### **Massachusetts "Right To Know" List**

The following ingredients are listed or exempt:

*1,4-dioxane*

*ethylene oxide*

#### **Rhode Island "Right To Know" List**

The following ingredients are listed or exempt:

*1,4-dioxane*

*ethylene oxide*

#### **Minnesota "Right To Know" List**

The following ingredients are listed or exempt:

*1,4-dioxane*

*ethylene oxide*

#### **New Jersey "Right To Know" List**

The following ingredients are listed or exempt:

*1,4-dioxane*

*ethylene oxide*

#### **Pennsylvania "Right To Know" List**

The following ingredients are listed or exempt:

*1,4-dioxane*

*ethylene oxide*

### Inventories

## Cola®Mulse FE

**EU - REACH** Not registered

**Canada - DSL/NDSL**

All the ingredients are listed or exempt.  
NDSL

**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 - MITI**

All the ingredients are listed or exempt.

**Korea - KECI**

All the ingredients are listed or exempt.

**China - IECSC**

All the ingredients are listed or exempt.

**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.

### 16. Other information

<b>Classification abbreviations and acronyms</b>	Eye Irrit. = Eye irritation Skin Irrit. = Skin irritation
<b>Training advice</b>	Only trained personnel should use this material.
<b>Issued by</b>	Regulatory Affairs Department
<b>Revision date</b>	1/29/2018
<b>Revision</b>	2
<b>Supersedes date</b>	1/26/2018
<b>SDS No.</b>	5572
<b>Hazard statements in full</b>	H220 Extremely flammable gas. H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H340 May cause genetic defects. H350 May cause cancer. H351 Suspected of causing cancer.

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**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.