



## SAFETY DATA SHEET

### Cola@Mulse C356

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

#### 1. Identification

##### Product identifier

**Product name** Cola@Mulse C356

**Product number** 3536

##### 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** Flam. Liq. 3 - H226

**Health hazards** Acute Tox. 4 - H302 Skin Corr. 1C - H314 Eye Dam. 1 - H318 STOT RE 2 - H373

**Environmental hazards** Aquatic Acute 3 - H402 Aquatic Chronic 3 - H412

##### Label elements

##### Hazard symbols



**Signal word**

Danger

##### Hazard statements

H226 Flammable liquid and vapor.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P240 Ground/ bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P260 Do not breathe vapor/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.</p> <p>P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a poison center/ doctor.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
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**Contains** methanol

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>Benzenesulfonic acid, C10-16-alkyl derivs.</b>	<b>30-60%</b>
CAS number: 68584-22-5	
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Corr. 1C - H314	
Eye Dam. 1 - H318	
<b>(9Z,12Z)-N,N-bis(2-hydroxyethyl)octadeca-9,12-dien-1-amide</b>	<b>30-60%</b>
CAS number: 56863-02-6	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	

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<b>2,2'-iminodiethanol</b>	<b>10-30%</b>
CAS number: 111-42-2	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373	
<b>ISOPROPANOL</b>	<b>5-10%</b>
CAS number: 67-63-0	
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2A - H319 STOT SE 3 - H335	
<b>Poly(oxy-1,2-ethanediyl), <math>\alpha</math>-(4-nonylphenyl)-<math>\omega</math>-hydroxy-, branched</b>	<b>1-5%</b>
CAS number: 127087-87-0	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318	
<b>Docosate sodium</b>	<b>1-5%</b>
CAS number: 577-11-7	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318	
<b>sulfuric acid</b>	<b>&lt;1%</b>
CAS number: 7664-93-9	
<b>Classification</b> Skin Corr. 1A - H314 Eye Dam. 1 - H318	
<b>Benzene, C10-16-alkyl derivs.</b>	<b>&lt;1%</b>
CAS number: 68648-87-3	
M factor (Acute) = 1                      M factor (Chronic) = 1	
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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<b>ethanol</b>	<b>&lt;0.5%</b>
CAS number: 64-17-5	
<b>Classification</b>	
Flam. Liq. 2 - H225	
<b>methanol</b>	<b>&lt;0.5%</b>
CAS number: 67-56-1	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 3 - H301	
Acute Tox. 3 - H311	
Acute Tox. 3 - H331	
STOT SE 1 - H370	
<b>2-aminoethanol</b>	<b>&lt; 75 ppm</b>
CAS number: 141-43-5	
<b>Classification</b>	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
Aquatic Chronic 3 - H412	
<b>acetic acid</b>	<b>&lt; 35 ppm</b>
CAS number: 64-19-7	
<b>Classification</b>	
Flam. Liq. 3 - H226	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
<b>1,4-dioxane</b>	<b>&lt; 35 ppm</b>
CAS number: 123-91-1	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Eye Irrit. 2A - H319	
Carc. 2 - H351	
STOT SE 3 - H335	

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<b>ethylene oxide</b>	<b>&lt; 35 ppm</b>
CAS number: 75-21-8	
<b>Classification</b>	
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.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	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.
<b>Skin Contact</b>	It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician.
<b>Eye contact</b>	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.
<b>Protection of first aiders</b>	It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

#### 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>	A single exposure may cause the following adverse effects: Severe irritation of nose and throat. Symptoms following overexposure may include the following: Corrosive to the respiratory tract.
<b>Ingestion</b>	May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
<b>Skin contact</b>	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
<b>Eye contact</b>	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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### 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 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. Flammable liquid and vapour. Vapors may be ignited by a spark, a hot surface or an ember. Vapors may form explosive mixtures with air. Fire-water run-off in sewers may create fire or explosion hazard. This product is toxic. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapors.

#### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. 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** Regular protection may not be safe. Wear chemical protective suit. 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. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Promptly remove any clothing that becomes contaminated. Avoid inhalation of vapors and spray/mists. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.

#### 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

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<b>Methods for cleaning up</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. This product is corrosive. Provide adequate ventilation. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. 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.
<b>Reference to other sections</b>	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

<b>Usage precautions</b>	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. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. This product is corrosive. Immediate first aid is imperative. 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.
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<b>Advice on general occupational hygiene</b>	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.
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#### Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Store away from incompatible materials (see Section 10). Store locked up. Keep away from oxidizing materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
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<b>Storage class</b>	Flammable liquid storage.
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#### Specific end uses(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.
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### 8. Exposure controls/Personal protection

#### Control parameters

#### Occupational exposure limits

##### 2,2'-iminodiethanol

Long-term exposure limit (8-hour TWA): ACGIH 0.2 ppm 1 mg/m<sup>3</sup> inhalable fraction and vapor  
A3, Sk

##### ISOPROPANOL

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Long-term exposure limit (8-hour TWA): OSHA 400 ppm 980 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 492 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 400 ppm 984 mg/m<sup>3</sup>

A4

### sulfuric acid

Long-term exposure limit (8-hour TWA): OSHA 1 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 0.2 mg/m<sup>3</sup> thoracic fraction

A2

### ethanol

Short-term exposure limit (15-minute): ACGIH 1000 ppm 1880 mg/m<sup>3</sup>

A3

Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 1900 mg/m<sup>3</sup>

### methanol

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm 262 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 250 ppm 328 mg/m<sup>3</sup>

Sk

Long-term exposure limit (8-hour TWA): OSHA 200 ppm 260 mg/m<sup>3</sup>

### 2-aminoethanol

Long-term exposure limit (8-hour TWA): OSHA 3 ppm 6 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): ACGIH 3 ppm 7.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 6 ppm 15 mg/m<sup>3</sup>

### acetic acid

Long-term exposure limit (8-hour TWA): ACGIH 10 ppm 25 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH 15 ppm 37 mg/m<sup>3</sup>

Long-term exposure limit (8-hour TWA): OSHA 10 ppm 25 mg/m<sup>3</sup>

### 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

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.

A2 = Suspected Human Carcinogen.

Sk = Danger of cutaneous absorption.

A4 = Not Classifiable as a Human Carcinogen.

### ISOPROPANOL (CAS: 67-63-0)

**Immediate danger to life  
and health** 2000 ppm

### sulfuric acid (CAS: 7664-93-9)

**Immediate danger to life  
and health** 15 mg/m<sup>3</sup>

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### ethanol (CAS: 64-17-5)

**Immediate danger to life and health** 3300 ppm

### methanol (CAS: 67-56-1)

**Immediate danger to life and health** 6000 ppm

### 2-aminoethanol (CAS: 141-43-5)

**Immediate danger to life and health** 30 ppm

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

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

### acetic acid (CAS: 64-19-7)

**Immediate danger to life and health** 50 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 any possibility of 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.

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<b>Respiratory protection</b>	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.
<b>Environmental exposure controls</b>	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

<b>Appearance</b>	Liquid.
<b>Color</b>	Yellow.
<b>Odor</b>	Characteristic.
<b>Odor threshold</b>	Not available.
<b>pH (10% aqueous)</b>	8.0 - 11.0
<b>Melting point</b>	Not available.
<b>Initial boiling point and range</b>	> 100°C/212°F
<b>Flash point</b>	~ 34°C/93°F Pensky-Martens closed cup.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable. Product is a liquid.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Soluble 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 considered to be explosive.
<b>Oxidizing properties</b>	Does not meet the criteria for classification as oxidizing.
<b>Other information</b>	None.
<b>Volatile organic compound</b>	Not available.
<b>Surface Tension</b>	Not available.
<b>% Solids</b>	Not available.

### 10. Stability and reactivity

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<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>	The following materials may react strongly with the product: Oxidizing agents.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.
<b>Materials to avoid</b>	Oxidizing materials. Acids - oxidizing.
<b>Hazardous decomposition products</b>	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapors.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Acute Tox. 4 - H302 Harmful if swallowed.

**ATE oral (mg/kg)** 929.43

##### Acute toxicity - dermal

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

**ATE dermal (mg/kg)** 187,125.75

##### Acute toxicity - inhalation

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

**ATE inhalation (vapours mg/l)** 1,871.26

**ATE inhalation (dusts/mists mg/l)** 311.88

##### Skin corrosion/irritation

**Skin corrosion/irritation** Causes severe burns.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Eye Dam. 1 - H318 Corrosive to skin. Corrosivity to eyes is assumed.

##### 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 which may be potentially carcinogenic. IARC Group 2B Possibly carcinogenic to humans.

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### 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** STOT RE 2 - H373 May cause damage to organs through prolonged or 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**

Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.

### **Ingestion**

May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.

### **Skin Contact**

Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.

### **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.

## 12. Ecological information

### **Ecotoxicity**

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

### **Toxicity**

Based on available data the classification criteria are not met.

### Persistence and degradability

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

### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

### **Partition coefficient**

Not available.

### Mobility in soil

### **Mobility**

No data available.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

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<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. 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

<b>General</b>	This product may be consigned under the Limited Quantity or Excepted Quantity provisions.
<b>Sea transport notes</b>	LTD QTY: This material is excepted under limited quantity provisions if shipped in combination packages, and packaging does not exceed 5 L inner / 30 kg gross (PG III)
<b>Air transport notes</b>	LTD QTY: This material is excepted under limited quantity provisions if shipped in combination packages, and packaging does not exceed 1 L inner / 30 kg gross (for passenger aircraft), or 5 L inner / 30 kg gross (for Cargo Only Aircraft) (PG III). If inner packaging exceeds 1L but < 5L, then the package must also be marked with "Cargo Only Aircraft" label in addition to the "Limited Quantity" label.
<b>DOT transport notes</b>	LTD QTY: This material is excepted under limited quantity provisions if shipped by ground in combination packages, and packaging does not exceed 5 L inner / 30 kg gross (PG III)
<b><u>UN Number</u></b>	
UN No. (TDG)	2924
UN No. (IMDG)	2924
UN No. (ICAO)	2924
UN No. (DOT)	UN2924
<b><u>UN proper shipping name</u></b>	
<b>Proper shipping name (TDG)</b>	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (CONTAINS Isopropanol, Alkyl Benzenesulfonic Acid)
<b>Proper shipping name (IMDG)</b>	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (CONTAINS Isopropanol, Alkyl Benzenesulfonic Acid)
<b>Proper shipping name (ICAO)</b>	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (CONTAINS Isopropanol, Alkyl Benzenesulfonic Acid)
<b>Proper shipping name (DOT)</b>	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (CONTAINS Isopropanol, Alkyl Benzenesulfonic Acid)
<b><u>Transport hazard class(es)</u></b>	
DOT hazard class	3
DOT subsidiary risk	8
DOT hazard label	3
TDG class	3
TDG subsidiary risk	8

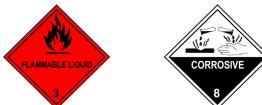
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TDG label(s)	3
IMDG Class	3
IMDG subsidiary risk	8
ICAO class/division	3
ICAO subsidiary risk	8

### Transport labels



### DOT transport labels



### Packing group

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

### Environmental hazards

#### Environmentally Hazardous Substance

No.

### Special precautions for user

EmS F-E, S-C

DOT reportable quantity RQ: Sulfuric acid (131926.1214 lbs), RQ: Diethanolamine (588.5815 lbs)

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

None of the ingredients are listed or exempt.

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

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

Final CERCLA RQ: 100(45.4) 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:

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*2,2'-iminodiethanol*

1.0 %

### **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**

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

Carcinogen.

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

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

ISOPROPANOL

### **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:

*2,2'-iminodiethanol*

ISOPROPANOL

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

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

ISOPROPANOL

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

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

ISOPROPANOL

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

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

ISOPROPANOL

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### New Jersey "Right To Know" List

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

*ISOPROPANOL*

### Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

*2,2'-iminodiethanol*

*ISOPROPANOL*

### Inventories

**EU - REACH** Not registered

### 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.

### 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.

### 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

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<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>TDG: The transport of dangerous goods act</p> <p>IATA: International air transport association.</p> <p>ICAO: Technical instructions for the safe transport of dangerous goods by air.</p> <p>IMDG: International maritime dangerous goods.</p> <p>CAS: Chemical abstracts service.</p> <p>ATE: Acute toxicity estimate.</p> <p>LC<sub>50</sub>: Lethal concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal dose to 50% of a test population (median lethal dose).</p> <p>EC<sub>50</sub>: 50% of maximal effective concentration.</p> <p>PBT: Persistent, bioaccumulative and toxic substance.</p> <p>vPvB: Very persistent and very bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Flam. Liq. = Flammable liquid</p> <p>Acute Tox. = Acute toxicity</p> <p>Eye Dam. = Serious eye damage</p> <p>Skin Corr. = Skin corrosion</p> <p>STOT RE = Specific target organ toxicity-repeated exposure</p>
<b>Training advice</b>	Only trained personnel should use this material.
<b>Issued by</b>	Regulatory Affairs Department
<b>Revision date</b>	9/2/2020
<b>Revision</b>	2
<b>Supersedes date</b>	11/27/2018
<b>SDS No.</b>	5867
<b>Hazard statements in full</b>	<p>H220 Extremely flammable gas.</p> <p>H225 Highly flammable liquid and vapor.</p> <p>H226 Flammable liquid and vapor.</p> <p>H301 Toxic if swallowed.</p> <p>H302 Harmful if swallowed.</p> <p>H311 Toxic in contact with skin.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H331 Toxic if inhaled.</p> <p>H332 Harmful if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H340 May cause genetic defects.</p> <p>H350 May cause cancer.</p> <p>H351 Suspected of causing cancer.</p> <p>H370 Causes damage to organs (Central nervous system).</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p> <p>H373 May cause damage to organs (Blood, Liver, Kidneys, Nervous system) through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H402 Harmful to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>

**End of SDS**

## Cola®Mulse C356

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.