



## SAFETY DATA SHEET

### Cola@Lube 3423

According to WHMIS 2015, in compliance with the Hazardous Product Act (HPA, as amended) and the requirements of the Hazardous Product Regulations (HPR)

#### 1. Identification

##### Product identifier

Product name Cola@Lube 3423

Product number 1643

Internal identification LWR e-36

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

Restriction on use For Research & Development (R&D) Use Only

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 identification

##### Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373

Environmental hazards Not Classified

##### Label elements

##### Hazard pictograms



Signal word

Danger

##### Hazard statements

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H373 May cause damage to organs through prolonged or repeated exposure.

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|                                 |  |
|---------------------------------|--|
| <b>Precautionary statements</b> | <p>P260 Do not breathe vapour/ 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>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</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>P330 Rinse mouth.</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
|---------------------------------|--|

**Contains** 2,2'-iminodiethanol

**EXP Restrictions:** Experimental Product For R&D Use Only

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

|                            |               |
|----------------------------|---------------|
| <b>2,2'-iminodiethanol</b> | <b>30-60%</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           |               |

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.   |
| <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 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> | First aid personnel should wear appropriate protective equipment during any rescue.  |

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### 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>         | Causes serious eye damage. Symptoms following overexposure may include the following:<br>Pain. Profuse watering of the eyes. Redness. |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

### **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.   |

#### Specific hazards arising from the hazardous product

|                                      |   |
|--------------------------------------|---|
| <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:<br>Harmful gases or vapours. |

#### Advice for firefighters

|  |   |
|--|---|
| <b>Protective actions during firefighting</b>        | 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. 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. Firefighter's clothing that provides a basic level of protection during chemical incidents is defined by the Canada Occupational Health and Safety Regulations, by provincial guidelines on occupational health and safety or by NFPA standards if applicable.  |

### **6. Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | 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. |
| <b>Environmental precautions</b> |   |
| <b>Environmental precautions</b> | Avoid discharge into drains or watercourses or onto the ground.   |

#### Methods and material for containment and cleaning up

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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. For waste disposal, see Section 13.

### 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.

## 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. 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.

### 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 use(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

#### 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

ACGIH = American Conference of Governmental Industrial Hygienists.  
A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans.  
Sk = Danger of cutaneous absorption.

### Exposure controls

#### Protective equipment



#### Appropriate engineering controls

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

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|  |   |
|--|---|
| <b>Eye/face protection</b>             | Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.  |
| <b>Hand protection</b>                 | 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 the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.9), and any relevant provincial regulation relating to health and safety at work. 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.  |
| <b>Other skin and body protection</b>  | Wear appropriate clothing to prevent repeated or prolonged skin contact.  |
| <b>Hygiene measures</b>                | Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.   |
| <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 the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Full face mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. Half mask and quarter mask respirators with replaceable filter cartridges should comply with the Canadian regulation on health and safety at work, SOR/86-304, Part XII (12.7), and any relevant provincial regulation relating to health and safety at work. |
| <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>Colour</b>                                       | Yellow.                       |
| <b>Odour</b>  | Characteristic.               |
| <b>Odour threshold</b>                              | Not available.                |
| <b>pH (1% aqueous)</b>                              | 9.0 - 10.5                    |
| <b>Melting point</b>                                | Not determined.               |
| <b>Initial boiling point and range</b>              | > 100°C/212°F                 |
| <b>Flash point</b>                                  | ≥ 95°C/203°F Estimated value. |
| <b>Evaporation rate</b>                             | Not determined.               |
| <b>Flammability (solid, gas)</b>                    | Not expected to be flammable. |
| <b>Upper/lower flammability or explosive limits</b> | Not determined.               |
| <b>Vapour pressure</b>                              | Not determined.               |
| <b>Vapour density</b>                               | Not determined.               |

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|                                  |                   |
|----------------------------------|-------------------|
| <b>Relative density</b>          | Not determined.   |
| <b>Solubility(ies)</b>           | Soluble in water. |
| <b>Partition coefficient</b>     | Not determined.   |
| <b>Auto-ignition temperature</b> | Not determined.   |
| <b>Decomposition Temperature</b> | Not determined.   |
| <b>Viscosity</b>                 | Not determined.   |
| <b>Explosive properties</b>      | Not determined.   |
| <b>Oxidising properties</b>      | Not determined.   |
| <b>Other information</b>         | None.             |
| <b>Pour Point</b>                | Not determined.   |
| <b>Freezing Point</b>            | Not determined.   |
| <b>Surface Tension</b>           | Not determined.   |
| <b>% Solids</b>                  | Not determined.   |

### 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 vapours. |

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

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

**ATE oral (mg/kg)** 1,428.57

##### 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

**Animal data** Irritating.

##### Serious eye damage/irritation

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|  |  |
|--|--|
| <b>Serious eye damage/irritation</b>                             | Eye Dam. 1 - H318 Causes serious eye damage.   |
| <b><u>Respiratory sensitization</u></b>                          |  |
| <b>Respiratory sensitization</b>                                 | Based on available data the classification criteria are not met.   |
| <b><u>Skin sensitization</u></b>                                 |  |
| <b>Skin sensitization</b>  | Based on available data the classification criteria are not met.   |
| <b><u>Germ cell mutagenicity</u></b>                             |  |
| <b>Genotoxicity - in vitro</b>                                   | Based on available data the classification criteria are not met.   |
| <b><u>Carcinogenicity</u></b>                                    |  |
| <b>Carcinogenicity</b>   | Based on available data the classification criteria are not met.   |
| <b>IARC carcinogenicity</b>                                      | Contains a substance which may be potentially carcinogenic. IARC Group 2B Possibly carcinogenic to humans.                         |
| <b><u>Reproductive toxicity</u></b>                              |  |
| <b>Reproductive toxicity - fertility</b>                         | Based on available data the classification criteria are not met.   |
| <b>Reproductive toxicity - development</b>                       | Based on available data the classification criteria are not met.   |
| <b><u>Specific target organ toxicity - single exposure</u></b>   |  |
| <b>STOT - single exposure</b>                                    | Not classified as a specific target organ toxicant after a single exposure.  |
| <b><u>Specific target organ toxicity - repeated exposure</u></b> |  |
| <b>STOT - repeated exposure</b>                                  | STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.  |
| <b><u>Aspiration hazard</u></b>                                  |  |
| <b>Aspiration hazard</b>   | Based on available data the classification criteria are not met.   |
| <b><u>General information</u></b>                                |  |
| <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>   | Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness. |
| <b>Route of exposure</b>   | Ingestion Inhalation Skin and/or eye contact   |
| <b>Target organs</b>   | No specific target organs known.   |

### 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>Bioaccumulative potential</b>            | No data available on bioaccumulation.   |

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**Partition coefficient** Not determined.

### Mobility in soil

**Mobility** No data available.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

#### **General information**

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

#### **Disposal methods**

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

## 14. Transport information

**General** Not regulated.

## 15. Regulatory information

### Inventories

**EU - REACH** Not registered

#### **Canada – DSL/NDSL**

All the ingredients are listed or exempt.

#### **Australia - AICS**

Not listed.

#### **Japan - ENCS**

Not listed.

#### **Korea - KECI**

All the ingredients are listed or exempt.

#### **China - IECSC**

All the ingredients are listed or exempt.

#### **China - IECIC**

Not listed.

#### **Phillippines – PICCS**

Not listed.

#### **New Zealand - NZIOC**

All the ingredients are listed or exempt.

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### Taiwan - TCSI

All the ingredients are listed or exempt.

### 16. Other information

|  |  |
|--|--|
| <b>Classification abbreviations and acronyms</b> | Eye Dam. = Serious eye damage<br>Skin Irrit. = Skin irritation<br>STOT RE = Specific target organ toxicity-repeated exposure   |
| <b>Training advice</b>                           | Only trained personnel should use this material.   |
| <b>Revision date</b>                             | 2019-11-01   |
| <b>Revision</b>                                  | 2  |
| <b>Supersedes date</b>                           | 2019-08-22   |
| <b>SDS number</b>                                | 6145   |
| <b>Hazard statements in full</b>                 | H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H318 Causes serious eye damage.<br>H373 May cause damage to organs through prolonged or repeated exposure. |

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.