1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier
Product Name: -RLI Food Grade Cleaner

Other means of identification
Product code: 87810, 87812, 87813, 87814, 87816
Synonyms: None

Recommended use of the chemical and restrictions on use
Recommended Use: Cleaning agent.
Uses advised against: Consumer use

Details of the supplier of the safety data sheet
Supplier and Manufacture
Renewable Lubricants, Inc.
476 Griggy RD NE, P.O. Box 474
Hartville, Oh 44632
Phone: (330) 877-9982
Fax: (330) 877-2266

Emergency telephone number
Emergency Telephone: (CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification
OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
</tbody>
</table>

Label elements

EMERGENCY OVERVIEW

Signal word
Warning
Hazard statements
Causes skin irritation
Causes serious eye irritation
Appearance  Aqueous solution  
Physical state  Liquid  
Odor  Pleasant

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Eyes  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Skin  IF ON SKIN: Wash with plenty of soap and water
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Hazards not otherwise classified (HNOC)

Other information
• May be harmful if swallowed

Unknown Acute Toxicity
4.32% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>111-76-2</td>
<td>5-15</td>
<td>*</td>
</tr>
<tr>
<td>Dodecylbenzenesulfonic acid, triethanolamine salt</td>
<td>27323-41-7</td>
<td>1-10</td>
<td>*</td>
</tr>
<tr>
<td>Silica acid, disodium salt</td>
<td>6834-92-0</td>
<td>1-10</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen.

Ingestion: Do not induce vomiting without medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable.

Unsuitable extinguishing media No information available

Specific hazards arising from the chemical
None in particular.

Explosion data
Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: None.

**Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions:** Avoid contact with skin and eyes. Use personal protective equipment.

**Environmental precautions**

**Environmental precautions:** Do not flush into surface water.

**Methods and material for containment and cleaning up**

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Wipe up with absorbent material (e.g. cloth, fleece).

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling:** Prepare the working solution as given on the label(s) and/or the user instructions. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH TLV</th>
<th>OSHA (TWA mg/m³):</th>
<th>IDLH:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy- - 111-76-2</td>
<td>20 ppm</td>
<td>240 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Respiratory protection:** Not required; except in case of aerosol formation.

**Hand protection:** Nitrile rubber

**Eye protection:** Safety glasses

**Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect

**General Hygiene Considerations:** Avoid contact with skin, eyes and clothing

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Aqueous solution</td>
</tr>
<tr>
<td>Odor</td>
<td>Pleasant</td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
</tr>
</tbody>
</table>

---

Material Name: RLI Food Grade Cleaner
<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks \ Method</th>
<th>pH</th>
<th>13. Boiling point / boiling range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/freezing</td>
<td>&lt;= 0 °C / 32 °F</td>
<td></td>
<td></td>
<td>&gt;= 100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash point</td>
<td>No Flash Point</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>No, Flammability</td>
<td>Flammability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td></td>
<td>Lower flammability limit:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td>Water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>&gt; 1.0</td>
<td>Partition</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td>Partition coefficient available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td>Decomposition temperature available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No information available</td>
<td>Dynamic viscosity available</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other information**

- Softening point: No information available
- Molecular weight: No information available
- VOC Content (%): Not listed as a VOC (CARB)
- Density: No information available
- Bulk density: No information available

**10. STABILITY AND REACTIVITY**

**Reactivity**

Not applicable

**Chemical stability**

- Stability: Stable under normal conditions
- Possibility of Hazardous Reactions
  - None under normal processing.
- Hazardous polymerization: Hazardous polymerization does not occur.

**Conditions to avoid**

- Conditions to avoid: No special storage conditions required
- Hazardous Decomposition Products: None reasonably foreseeable
- Incompatible materials: Acids

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

- Product Information: May be harmful if swallowed
**Eye contact**
Moderately irritating to the eyes.

**Skin contact**
May cause irritation.

**Inhalation**
Avoid breathing vapors or mists.

**Ingestion**
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

### Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy - 111-76-2</td>
<td>470 mg/kg (Rat)</td>
<td>220 mg/kg (Rabbit)</td>
<td>450 ppm (Rat) 4 h</td>
</tr>
<tr>
<td>Dodecylbenzenesulfonic acid, triethanolamine salt - 27323-41-7</td>
<td>2320 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Silica acid, disodium salt - 6834-92-0</td>
<td>600 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### Information on toxicological effects

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Sensitization**
  No sensitization responses were observed.

- **Mutagenic effects:**
  Did not show mutagenic or teratogenic effects in animal experiments.

- **Carcinogenicity**
  This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

- **Reproductive toxicity**
  This product does not contain any known or suspected reproductive hazards.

- **STOT - Single Exposure**
  None under normal use conditions.

- **STOT - Repeated Exposure**
  None under normal use conditions.

- **Aspiration hazard**
  Not applicable.

#### Numerical measures of toxicity - Product Information

- **Unknown Acute Toxicity**
  4.32% of the mixture consists of ingredient(s) of unknown toxicity

  The following values are calculated based on chapter 3.1 of the GHS document.

  - ATEmix (oral) 3024 mg/kg
  - ATEmix (dermal) 8130 mg/kg
  - ATEmix (inhalation-dust/mist) 13 mg/l

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No known hazards to the aquatic environment.

4.319508% of the mixture consists of component(s) of unknown hazards to the aquatic environment

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy - 111-76-2</td>
<td>0.81</td>
</tr>
</tbody>
</table>

#### Persistence and degradability

Readily biodegradable, according to appropriate OECD test. (based on components).

#### Bioaccumulation

No information available.

#### Mobility

Soluble in water.
13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
Do not reuse container.

14. TRANSPORT INFORMATION

DOT
Not Regulated by any means of transportation

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed in TSCA
DSL: All of the components in this product are listed in DSL
EINECS/ELINCS: This product complies with EINECS/ELINCS
CHINA: This product complies with China IECSC.
KECL: This product complies with Korea KECL.
PICCS: This product complies with Philippines PICCS.
AICS: All the constituents of this material are listed on the Australian AICS

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<table>
<thead>
<tr>
<th>Components</th>
<th>SARA 313 Threshold:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>Ethanol, 2-butoxy- (1%)</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

- Acute Health Hazard: Yes
- Chronic Health Hazard: No
- Fire Hazard: No
- Sudden release of pressure hazard: No
- Reactive Hazard: No

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations (RTK)

California Proposition 65
This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

<table>
<thead>
<tr>
<th>Components</th>
<th>NJRTK:</th>
<th>MARTK:</th>
<th>PARTK:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodecylbenzenesulfonic acid, triethanolamine salt - 27323-41-7</td>
<td>Substance no. 1905 Listed.</td>
<td>Listed.</td>
<td>Listed.</td>
</tr>
</tbody>
</table>

**U.S. EPA Label Information**

EPA Pesticide Registration Number  Not applicable

16. OTHER INFORMATION

**Nfpa:**
Health: 1
Flammability: 0
Instability 0

**NFPA/HMIS * for Carc, Muta, Tera, Specific Organ * **

**HMIS health rating:**
Health: 1
Flammability: 0
Physical hazards 0

**Personal protection**  B

**Disclaimer**
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.