SAFETY DATA SHEET

1. Identification

Product identifier: CLAIRE GERMICIDAL CLEANER COUNTRY FRESH SCENT -EPA# 706-65

Other means of identification
SDS number: RE1000008451

Recommended restrictions
Product use: Coating
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer
Company Name: CLAIRE MANUFACTURING COMPANY
Address: 1000 Integram Dr
          Pacific, MO 63069
Telephone: 1-630-543-7600
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards
- Flammable aerosol Category 1

Health Hazards
- Serious Eye Damage/Eye Irritation Category 2A
- Skin sensitizer Category 1B
- Toxic to reproduction Category 2

Label Elements

Hazard Symbol:

Signal Word: Danger
Hazard Statement:
- Extremely flammable aerosol.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- Suspected of damaging fertility or the unborn child.

Precautionary Statements
Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: 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. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>111-76-2</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Glycine, N.N’-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)</td>
<td>64-02-8</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>1-Hexadecanamine, N,N-dimethyl-, N-oxide</td>
<td>7128-91-8</td>
<td>1 - &lt;3%</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>67-63-0</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>151-21-3</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>1310-73-2</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</td>
<td>85409-23-0</td>
<td>0.1 - &lt;0.25%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed
## Symptoms
No data available.

## Hazards
No data available.

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

**Treatment:** No data available.

## 5. Fire-fighting measures

### General Fire Hazards:
Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

### Suitable (and unsuitable) extinguishing media

#### Suitable extinguishing media:
Use fire-extinguishing media appropriate for surrounding materials.

#### Unsuitable extinguishing media:
Do not use water jet as an extinguisher, as this will spread the fire.

### Specific hazards arising from the chemical:
Vapors may travel considerable distance to a source of ignition and flash back.

### Special protective equipment and precautions for firefighters

#### Special fire fighting procedures:
No data available.

#### Special protective equipment for fire-fighters:
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures:
Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

### Methods and material for containment and cleaning up:
Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

### Notification Procedures:
Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

### Environmental Precautions:
Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.
7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Store locked up. Aerosol Level 1

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>TWA</td>
<td>20 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm 120 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>5 ppm 24 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>50 ppm 240 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Butane</td>
<td>REL</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2018)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>REL</td>
<td>400 ppm 980 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>500 ppm 1,225 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>400 ppm 980 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>500 ppm 1,225 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Propane</td>
<td>REL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>Cell_Time</td>
<td>2 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>2 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Ammonium hydroxide ((NH₄)(OH))</td>
<td>STEL</td>
<td>35 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>25 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>35 ppm 27 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>35 ppm 27 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>25 ppm 18 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>50 ppm 35 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Hydrogen peroxide (H₂O₂)</td>
<td>REL</td>
<td>1 ppm 1.4 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1 ppm 1.4 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 ppm 1.4 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>TWA</td>
<td>10 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
</tbody>
</table>

SDS_US - RE1000008451
### Biological Limit Values

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis:</td>
<td>200 mg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Sampling time: End of shift.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Propanol (acetone: Sampling time: End of shift at end of work week.)</td>
<td>40 mg/l (Urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
</tbody>
</table>

### Appropriate Engineering Controls

- No data available.

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

**General information:**
Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/face protection:**
Wear safety glasses with side shields (or goggles).

**Skin Protection**

- **Hand Protection:** No data available.
- **Other:** No data available.

**Respiratory Protection:**
In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:**
Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.

### 9. Physical and chemical properties

**Appearance**

- **Physical state:** liquid
- **Form:** Spray Aerosol
- **Color:** No data available.
- **Odor:** No data available.
- **Odor threshold:** No data available.
- **pH:** No data available.
- **Melting point/freezing point:** No data available.
- **Initial boiling point and boiling range:** No data available.
- **Flash Point:** -104.4 °C
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** No data available.

**Upper/lower limit on flammability or explosive limits**

- **Flammability limit - upper (%):** No data available.
- **Flammability limit - lower (%):** No data available.
- **Explosive limit - upper (%):** No data available.
- **Explosive limit - lower (%):** No data available.

**Vapor pressure:**
3,447.379 - 4,826.330 hPa (20 °C)
Vapor density: No data available.
Density: No data available.
Relative density: No data available.
Solubility(ies)
   Solubility in water: No data available.
   Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. Stability and reactivity
Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.
Conditions to avoid: Avoid heat or contamination.
Incompatible Materials: No data available.
Hazardous Decomposition Products: No data available.

11. Toxicological information
Information on likely routes of exposure
   Inhalation: No data available.
   Skin Contact: No data available.
   Eye contact: No data available.
   Ingestion: No data available.
Symptoms related to the physical, chemical and toxicological characteristics
   Inhalation: No data available.
   Skin Contact: No data available.
   Eye contact: No data available.
   Ingestion: No data available.
Information on toxicological effects
   Acute toxicity (list all possible routes of exposure)
      Oral Product: ATEmix: 28,954.65 mg/kg
      Dermal Product: ATEmix: 11,909.42 mg/kg
Inhalation
Product:
ATEmix: 412.37 mg/l
ATEmix: 103.09 mg/l

Repeated dose toxicity
Product:
No data available.

Specified substance(s):
Ethanol, 2-butoxy-
NOAEL (Rabbit(Female, Male), Dermal, 90 d): > 150 mg/kg Dermal Experimental result, Key study
NOAEL (Rat(Female), Oral, 90 d): < 82 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Female), Inhalation, 2 yr): < 31 ppm(m) Inhalation Experimental result, Key study

Butane
LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study

Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)], sodium salt (1:4)
NOAEL (Rat(Female, Male), Oral, 103 Weeks): >= 500 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study
LOAEL (Rat(Male), Inhalation, 1 - 5 d): 30 mg/m3 Inhalation Read-across from supporting substance (structural analogue or surrogate), Key study

2-Propanol
NOAEL (Rat, Inhalation, >= 104 Weeks): 5,000 ppm(m) Inhalation Experimental result, Key study

Propane
NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study

Sulfuric acid monododecyl ester sodium salt (1:1)
NOAEL (Rat(Female, Male), Oral, 13 Weeks): 482 mg/kg Oral Experimental result, Supporting study
NOAEL (Rat(Female, Male), Oral, 2 yr): 0.15 %(m) Oral Experimental result, Supporting study

Skin Corrosion/Irritation
Product:
No data available.

Specified substance(s):
Ethanol, 2-butoxy-
in vivo (Rabbit): Irritating Experimental result, Key study
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)], sodium salt (1:4)
in vivo (Rabbit): Not irritant Experimental result, Key study
2-Propanol
in vivo (Rabbit): Not Classified Experimental result, Key study
Sulfuric acid monododecyl ester sodium salt (1:1)
in vivo (Rabbit): Irritating Experimental result, Key study

Serious Eye Damage/Eye Irritation
Product:
No data available.

Specified substance(s):
Ethanol, 2-butoxy-
Rabbit, 24 - 72 hrs: Irritating
2-Propanol
Rabbit, 1 d: Irritating.
Sulfuric acid monododecyl ester sodium salt (1:1)
Rabbit, 24 - 72 hrs: Irritating.
Sodium hydroxide (Na(OH))

Corrosive
Rabbit, 2 d: 10% Sodium Hydroxide- Category 1; 0.5% Sodium Hydroxide- Slightly irritating to eyes

Respiratory or Skin Sensitization
Product: No data available.

Specified substance(s):
- Ethanol, 2-butoxy-
- Glycine, N,N'-1,2-
  ethanediylbis[N-
  (carboxymethyl)]-
  sodium salt (1:4)
- 2-Propanol
- Sulfuric acid
  monododecyl ester
  sodium salt (1:1)

Skin sensitization:, in vivo (Guinea pig): Non sensitising
Skin sensitization:, in vivo (Guinea pig): Non sensitising
Skin sensitization:, in vivo (Guinea pig): Non sensitising
Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.
**Specified substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC 50 (Variants, 96 h)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-Butane</td>
<td>1.474 mg/l</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-], sodium salt (1:4)</td>
<td>121 mg/l</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>9.640 mg/l</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Propane</td>
<td>147.54 mg/l</td>
<td>QSAR, Key study</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>29 mg/l</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>125 mg/l</td>
<td>Mortality</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</td>
<td>&lt; 180 mg/l</td>
<td>Supporting study</td>
</tr>
</tbody>
</table>

**Aquatic Invertebrates Product:**

**Specified substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC 50 (Variants, 48 h)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-Butane</td>
<td>1,550 mg/l</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-], sodium salt (1:4)</td>
<td>610 mg/l</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>&gt; 10,000 mg/l</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>1.8 mg/l</td>
<td>Experimental result, Not specified</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>34.59 - 47.13 mg/l</td>
<td>Intoxication</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</td>
<td>0.015 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

**Chronic hazards to the aquatic environment:**

**Fish Product:**

No data available.
Specified substance(s):
- Ethanol, 2-butoxy-
- Glycine, N,N’-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)
- Sulfuric acid monododecyl ester sodium salt (1:1)
- Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl] dimethyl, chlorides

Aquatic Invertebrates
Product:
Specified substance(s):
- Ethanol, 2-butoxy-
- Glycine, N,N’-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)
- Sulfuric acid monododecyl ester sodium salt (1:1)

Toxicity to Aquatic Plants
Product:
Specified substance(s):
- Sulfuric acid monododecyl ester sodium salt (1:1)

Persistence and Degradability
Biodegradation
Product:
Specified substance(s):
- Ethanol, 2-butoxy-
- Butane
- Glycine, N,N’-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)
- 2-Propanol
- Propane

SDS_US - RE1000008451
### Sulfuric acid monododecyl ester sodium salt (1:1)

94 % (28 d) Detected in water. Experimental result, Supporting study

95 % Detected in water. Experimental result, Key study

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

- Glycine, N,N’-1,2-ethanediylibisN-(carboxymethyl)-, sodium salt (1:4)

  Lepomis macrochirus, Bioconcentration Factor (BCF): 1.8 Aquatic sediment Experimental result, Key study

- Sulfuric acid monododecyl ester sodium salt (1:1)

  Carp (Cyprinus carpio), Bioconcentration Factor (BCF): 50 (Flow through)

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:**

No data available.

**Known or predicted distribution to environmental compartments**

- Ethanol, 2-butoxy- No data available.

- Butane No data available.

- Glycine, N,N’-1,2-ethanediylibisN-(carboxymethyl)-, sodium salt (1:4) No data available.

- 1-Hexadecanamine, N,N-dimethyl-, N-oxide No data available.

- 2-Propanol No data available.

- Propane No data available.

- Sulfuric acid monododecyl ester sodium salt (1:1) No data available.

- Sodium hydroxide (Na(OH)) No data available.

- Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides No data available.

**Other adverse effects:**

No data available.

---

### 13. Disposal considerations

**Disposal instructions:**

Discharge, treatment, or disposal may be subject to national, state, or local laws.

**Contaminated Packaging:**

No data available.
14. Transport information

**DOT**

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN Number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN Proper Shipping Name:</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td></td>
<td>Transport Hazard Class(es)</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td>Class:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Label(s):</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Packing Group:</td>
<td>II</td>
</tr>
<tr>
<td></td>
<td>Marine Pollutant:</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Environmental Hazards:</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Special precautions for user:</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

**IMDG**

<table>
<thead>
<tr>
<th>IMDG</th>
<th>UN Number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UN Proper Shipping Name:</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td></td>
<td>Transport Hazard Class(es)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Class:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Label(s):</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>EmS No.:</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Packing Group:</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Environmental Hazards:</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Special precautions for user:</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

**IATA**

<table>
<thead>
<tr>
<th>IATA</th>
<th>UN Number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Proper Shipping Name:</td>
<td>Aerosols, flammable</td>
</tr>
<tr>
<td></td>
<td>Transport Hazard Class(es):</td>
<td>2.1</td>
</tr>
<tr>
<td></td>
<td>Class:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Label(s):</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Packing Group:</td>
<td>–</td>
</tr>
<tr>
<td></td>
<td>Environmental Hazards:</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Special precautions for user:</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>

15. Regulatory information

**US Federal Regulations**

**Restrictions on use:** Not known.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**


None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>
**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**
- Fire Hazard
- Immediate (Acute) Health Hazards
- Delayed (Chronic) Health Hazard
- Flammable aerosol
- Serious Eye Damage/Eye Irritation
- Skin sensitizer
- Toxic to reproduction

### SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (H2O2)</td>
<td>lbs. 1000</td>
<td>lbs. 1000</td>
</tr>
</tbody>
</table>

### SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Ammonium hydroxide ((NH4)(OH))</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Hydrogen peroxide (H2O2)</td>
<td>lbs. 1000</td>
</tr>
</tbody>
</table>

### SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (H2O2)</td>
<td>lbs</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Glycine, N,N’-1,2-ethanediylbis[N-(carboxymethyl)]-, sodium salt (1:4)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>1-Hexadecanamine, N,N-dimethyl-, N-oxide</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Sulfuric acid monododecyl ester sodium salt (1:1)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ammonium hydroxide ((NH4)(OH))</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Acetic acid, phenylmethyl ester</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>
SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reporting threshold for other users</th>
<th>Reporting threshold for manufacturing and processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>N230 lbs</td>
<td>N230 lbs.</td>
</tr>
<tr>
<td>2-Propanol</td>
<td>lbs</td>
<td>lbs.</td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

**US. California Proposition 65**
No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

**Chemical Identity**
Ethanol, 2-butoxy-
Butane
2-Propanol

**US. Massachusetts RTK - Substance List**

**Chemical Identity**
Glycine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Hydrogen peroxide (H2O2)

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**
Ethanol, 2-butoxy-
Butane
2-Propanol

**US. Rhode Island RTK**
No ingredient regulated by RI Right-to-Know Law present.

International regulations

**Montreal protocol**
Not applicable

**Stockholm convention**
Not applicable

**Rotterdam convention**
Not applicable

**Kyoto protocol**
Not applicable
Inventory Status:
- Australia AICS: Not in compliance with the inventory.
- Canada DSL Inventory List: Not in compliance with the inventory.
- EINECS, ELINCS or NLP: Not in compliance with the inventory.
- Japan (ENCS) List: Not in compliance with the inventory.
- China Inv. Existing Chemical Substances: Not in compliance with the inventory.
- Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.
- Canada NDSL Inventory: On or in compliance with the inventory.
- Philippines PICCS: Not in compliance with the inventory.
- US TSCA Inventory: On or in compliance with the inventory.
- New Zealand Inventory of Chemicals: Not in compliance with the inventory.
- Japan ISHL Listing: Not in compliance with the inventory.
- Japan Pharmacopoeia Listing: Not in compliance with the inventory.
- Mexico INSQ: Not in compliance with the inventory.
- Ontario Inventory: Not in compliance with the inventory.
- Taiwan Chemical Substance Inventory: Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

Issue Date: 10/15/2019
Revision Information: No data available.
Version #: 1.0
Further Information: FIFRA: This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.