1. Identification

Product identifier: PLASTIC CLEANER

Other means of identification
SDS number: RE1000000360

Recommended restrictions
Product Use: Cleaner
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

Environmental Hazards
Acute hazards to the aquatic environment Category 3

Label Elements

Hazard Symbol:

Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
Harmful to aquatic life.

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. Avoid release to the environment.

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

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</td>
<td>64-17-5</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>111-76-2</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Sodium nitrite, Nitrous acid, sodium salt (1:1)</td>
<td>7632-00-0</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Cyclotetrasiloxane, 2,2,4,4,6,6,8-octamethyl-</td>
<td>556-67-2</td>
<td>0.01 - &lt;1%</td>
</tr>
<tr>
<td>2-Propanol, 2-methyl-</td>
<td>75-65-0</td>
<td>0 - &lt;0.1%</td>
</tr>
<tr>
<td>Silica</td>
<td>112926-00-8</td>
<td>0 - &lt;0.1%</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: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/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: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

Notification Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe 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.
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. Aerosol Level 1

8. Exposure controls/personal protection

Control Parameters

### Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>TWA PEL</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09-2006)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm 1,900 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 1,900 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,900 mg/m³</td>
<td>US. Tennessee, OELs. Occupational Exposure Limits, Table Z1A (06-2008)</td>
</tr>
<tr>
<td>STEL</td>
<td></td>
<td>1,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (2009)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>1,880 µg/m³</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>10,000 ppb</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>1,000 ppb</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>18,800 µg/m³</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</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 PEL</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09-2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>US. Tennessee, OELs. Occupational Exposure Limits, Table Z1A (06-2008)</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>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>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. Tennessee, OELs. Occupational Exposure Limits, Table Z1A (06-2008)</td>
</tr>
<tr>
<td>STEL</td>
<td></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></td>
<td>AN ESL</td>
<td>3,000 ppb</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>7,100 µg/m³</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</td>
</tr>
<tr>
<td></td>
<td>TWA PEL</td>
<td>800 ppm 1,900 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09-2006)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>66,000 µg/m³</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>28,000 ppb</td>
<td>US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11-2016)</td>
</tr>
<tr>
<td>Substance (CAS # and Description)</td>
<td>TWA</td>
<td>REL</td>
<td>STEL</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----</td>
<td>-----</td>
<td>------</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>20 ppm</td>
<td>5 ppm</td>
<td>3,700 µg/m³</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>670 µg/m³</td>
<td>2,900 µg/m³</td>
<td>600 ppb</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>10 ppm</td>
<td>67 µg/m³</td>
<td>20 ppb</td>
</tr>
<tr>
<td>2-Propanol, 2-methyl-</td>
<td>100 ppm</td>
<td>100 ppm</td>
<td>62 µg/m³</td>
</tr>
<tr>
<td>STEL</td>
<td>150 ppm</td>
<td>200 ppb</td>
<td>150 ppm</td>
</tr>
</tbody>
</table>

**References:**
- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
- US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (09 2006)
- US. Texas, Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016)
- US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
- US. ACGIH Threshold Limit Values (2008)
- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
- US. ACGIH Threshold Limit Values (2008)
### 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: Sampling time: End of shift.)</td>
<td>200 mg/g (Creatinine in 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:** Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection:** Wear goggles/face shield.

**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:** When using do not smoke. Observe good industrial hygiene practices.

### 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: 100 °C
Flash Point: -104.44 °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: No data available.
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: 46,520.43 mg/kg

Dermal Product: ATEmix: 46,079.45 mg/kg

Inhalation Product: ATEmix: 1,381.69 mg/l
ATEmix: 345.42 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Ethanol NOAEL (Rat(Male), Oral, 7 - 14 Weeks): 10 % (m) Oral 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

Butane 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

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

Ethanol, 2-(2-butoxyethoxy)- NOAEL (Rat(Female, Male), Oral, 90 d): 250 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Female, Male), Dermal, 13 Weeks): > 2,000 mg/kg Dermal Experimental result, Key study
NOAEL (Rat(Female, Male), Inhalation, 90 - 120 d): 14 ppm (m) Inhalation Experimental result, Key study

Sodium nitrite, Nitrous acid, sodium salt (1:1) NOAEL (Rat(Male), Oral, 2 yr): 10 mg/kg Oral Experimental result, Supporting study
LOAEL (Rat(Male), Oral, 14 Weeks): 115 mg/kg Oral Experimental result, Weight of Evidence study
Cyclohexasiloxane, 2,2,4,4,6,6,8-octamethyl-

NOAEL (Rat(Female, Male), Inhalation, 13 Weeks): 480 ppm(m) Inhalation Experimental result, Supporting study

**Skin Corrosion/Irritation**

*Product:* No data available.

**Specified substance(s):**
- Ethanol in vivo (Rabbit): Not irritant Experimental result, Key study
- Ethanol, 2-butoxy- in vivo (Rabbit): Irritating Experimental result, Key study
- Ethanol, 2-(2-butoxyethoxy)- in vivo (Rabbit): Not irritant Experimental result, Supporting study
- Sodium nitrite, Nitrous acid, sodium salt (1:1) in vivo (Rabbit): Not irritant Experimental result, Weight of Evidence study
- Cyclohexasiloxane, 2,2,4,4,6,6,8-octamethyl- in vivo (Rabbit): Not irritant Experimental result, Key study

**Serious Eye Damage/Eye Irritation**

*Product:* No data available.

**Specified substance(s):**
- Ethanol Rabbit, 1 - 24 hrs: Not irritating
- Ethanol, 2-butoxy- Rabbit, 24 - 72 hrs: Irritating
- Ethanol, 2-(2-butoxyethoxy)- Rabbit, 24 - 72 hrs: Highly irritating

**Respiratory or Skin Sensitization**

*Product:* No data available.

**Specified substance(s):**
- Ethanol Skin sensitization; in vivo (Guinea pig): Non sensitising
- Ethanol, 2-butoxy- Skin sensitization; in vivo (Guinea pig): Non sensitising
- Ethanol, 2-(2-butoxyethoxy)- 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.
Specified substance(s):
2-Propanol, 2-methyl-
Inhalation - dust and mist: Respiratory tract irritation. - Category 3 with respiratory tract irritation.

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):
Ethanol LC 50 (Pimephales promelas, 96 h): 15.3 g/l Experimental result, Key study
Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Ethanol, 2-butoxy- LC 50 (Oncorhynchus mykiss, 96 h): 1,474 mg/l Experimental result, Key study
Ethanol, 2-(2-butoxyethoxy)-

LC 50 (Lepomis macrochirus, 96 h): 1,300 mg/l Experimental result, Key study
LC 50 (Pimephales promelas, 96 h): 2,400 mg/l Experimental result, Supporting study

Sodium nitrite, Nitrous acid, sodium salt (1:1)

LC 50 (Oncorhynchus mykiss, 96 h): 0.54 - 26.3 mg/l Experimental result, Key study

Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-

LC 50 (Oncorhynchus mykiss, 96 h): > 22 µg/l Experimental result, Key study
LC 50 (Oncorhynchus mykiss, 14 d): 10 µg/l Experimental result, Key study
NOAEL (Oncorhynchus mykiss, 14 d): 6.8 µg/l Experimental result, Supporting study

2-Propanol, 2-methyl-

LC 50 (Pimephales promelas, 96 h): > 961 mg/l Experimental result, Key study
NOAEL (Pimephales promelas, 96 h): 961 mg/l Experimental result, Key study

Aquatic Invertebrates Product:
No data available.

Specified substance(s):
- Ethanol
- Butane
- Ethanol, 2-butoxy-
- Ethanol, 2-(2-butoxyethoxy)-
- Sodium nitrite, Nitrous acid, sodium salt (1:1)
- Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-
- 2-Propanol, 2-methyl-

Ethanol
- LC 50 (Ceriodaphnia dubia, 48 h): 5,012 mg/l Experimental result, Key study
- NOAEL (Oryzias latipes): 7,900 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Butane
- LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study

Ethanol, 2-butoxy-
- LC 50 (Daphnia magna, 48 h): 1,550 mg/l Experimental result, Key study
- EC 50 (Daphnia magna, 48 h): +/- 1,743 mg/l QSAR QSAR, Supporting study

Ethanol, 2-(2-butoxyethoxy)-
- LC 50 (Daphnia magna, 48 h): EC 50 (Daphnia magna, 48 h): 15.4 mg/l Experimental result, Key study

Sodium nitrite, Nitrous acid, sodium salt (1:1)
- EC 50 (Daphnia magna, 48 h): 15.4 mg/l Experimental result, Key study

Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-
- EC 50 (Daphnia magna, 24 h): 25.2 mg/l Experimental result, Supporting study

2-Propanol, 2-methyl-
- NOAEL (Daphnia magna, 48 h): 180 mg/l Experimental result, Key study
- EC 50 (Daphnia magna, 48 h): 933 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish Product:
No data available.

Specified substance(s):
- Ethanol
- Ethanol, 2-butoxy-
- Sodium nitrite, Nitrous acid, sodium salt (1:1)
- Cyclotetrasiloxane,

Ethanol
- NOAEL (Oryzias latipes): 7,900 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study

Ethanol, 2-butoxy-
- NOAEL (Danio rerio): > 100 mg/l Experimental result, Key study

Sodium nitrite, Nitrous acid, sodium salt (1:1)
- NOAEL (Cyprinus carpio): 1.05 mg/l Experimental result, Key study

Cyclotetrasiloxane,
- NOAEL (Oncorhynchus mykiss): >= 4.4 µg/l Experimental result, Key study
2,2,4,4,6,6,8-octamethyl-

2-Propanol, 2-methyl-

**Aquatic Invertebrates**

**Product:**

No data available.

**Specified substance(s):**

Ethanol

NOAEL (Clarias gariepinus): 332 mg/l Experimental result, Key study

Ethanol, 2-butoxy-

EC 50 (Daphnia magna): 297 mg/l Experimental result, Key study

NOAEL (Daphnia magna): 134 mg/l Experimental result, Key study

Sodium nitrite, Nitrous acid, sodium salt (1:1)

EC 50 (Penaeus monodon): 114.9 mg/l Experimental result, Key study

NOAEL (Penaeus monodon): > 95.6 mg/l Experimental result, Key study

Cyclotetrasiloxane, 2,2,4,4,6,6,8-octamethyl-

LOAEL (Daphnia magna): 15 µg/l Experimental result, Key study

NOAEL (Daphnia magna): 7.9 µg/l Experimental result, Key study

**Toxicity to Aquatic Plants**

**Product:**

No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:**

No data available.

**Specified substance(s):**

Ethanol

95 % Detected in water. Experimental result, Key study

Propane

100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Butane

100 % (385.5 h) Detected in water. Experimental result, Key study

50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Ethanol, 2-butoxy-

90.4 % Detected in water. Experimental result, Key study

Ethanol, 2-(2-butoxyethoxy)-

85 % (28 d) Detected in water. Experimental result, Key study

Cyclotetrasiloxane, 2,2,4,4,6,6,8-octamethyl-

3.7 % (29 d) Detected in water. Experimental result, Key study

2-Propanol, 2-methyl-

2.6 - 5.1 % (29 d) Detected in water. Experimental result, Key study

**BOD/COD Ratio**

**Product:**

No data available.
Bioconcentration Factor (BCF)
Product: No data available.

Specified substance(s):
Ethanol Cyprinus carpio, Bioconcentration Factor (BCF): 4.5 Aquatic sediment Read-across from supporting substance (structural analogue or surrogate), Supporting study
Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl- Pimephales promelas, Bioconcentration Factor (BCF): 12,400 Aquatic sediment Experimental result, Key study

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 No data available.
Propane No data available.
Butane No data available.
Ethanol, 2-butoxy- No data available.
Ethanol, 2-(2-butoxyethoxy)- No data available.
Sodium nitrite, Nitrous acid, sodium salt (1:1) No data available.
Cyclotetrasiloxane, 2,2,4,4,6,6,8-octamethyl- No data available.
2-Propanol, 2-methyl- No data available.
Silica No data available.

Other adverse effects: Harmful to aquatic organisms.

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
UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es) Class: 2.1
Label(s): –
Packing Group: II
Marine Pollutant: No
Environmental Hazards: No
Marine Pollutant: No
Special precautions for user: Not regulated.

**IMDG**

- **UN Number:** UN 1950
- **UN Proper Shipping Name:** Aerosols, flammable
- **Transport Hazard Class(es):**
  - **Class:** 2
  - **Label(s):** –
  - **EmS No.:** –
- **Packing Group:** –
- **Environmental Hazards:** No
- **Marine Pollutant:** No
- **Special precautions for user:** Not regulated.

**IATA**

- **UN Number:** UN 1950
- **Proper Shipping Name:** Aerosols, flammable
- **Transport Hazard Class(es):**
  - **Class:** 2.1
  - **Label(s):** –
- **Packing Group:** –
- **Environmental Hazards:** No
- **Marine Pollutant:** No
- **Special precautions for user:** Not regulated.

**15. Regulatory information**

**US Federal Regulations**

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):** None present or none present in regulated quantities.
- **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Sodium nitrite, Nitrous acid, sodium salt (1:1)</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>2-Propanol, 2-methyl-1,3-Benzodioxole, 5-(2-propen-1-yl)-</td>
<td>lbs. 100</td>
</tr>
</tbody>
</table>

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

- **Hazard categories:**
  - Fire Hazard
  - Flammable aerosol

**Superfund Amendments and Reauthorization Act of 1986 (SARA):**
### 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>Amides, coco, N,N-bis(hydroxyethyl)</td>
<td></td>
<td></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</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-2-(2-butoxyethoxy)</td>
<td></td>
</tr>
<tr>
<td>Sodium nitrite, Nitrous acid, sodium salt (1:1)</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>2-Propanol, 2-methyl-</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Amides, coco, N,N-bis(hydroxyethyl)</td>
<td></td>
</tr>
<tr>
<td>1,3-Benzodioxole, 5-(2-propen-1-yl)-</td>
<td>lbs. 100</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>Ethanol</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-2-(2-butoxyethoxy)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Sodium nitrite, Nitrous acid, sodium salt (1:1)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Cyclotetrasiloxane, 2,2,4,4,6,6,8,8-octamethyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>2-Propanol, 2-methyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Silica</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>
</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
Propane
Butane
Ethanol, 2-butoxy-
Ethanol, 2-(2-butoxyethoxy)-

US. Massachusetts RTK - Substance List

Chemical Identity
1,3-Benzodioxole, 5-(2-propen-1-yl)-

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Ethanol
Propane
Butane
Ethanol, 2-butoxy-
Ethanol, 2-(2-butoxyethoxy)-

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: On or 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: Not in compliance with the inventory.

Philippines PICCS: Not in compliance with the inventory.

US TSCA Inventory: Not in compliance with the inventory.

New Zealand Inventory of Chemicals: On or 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: On or in compliance with the inventory

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

Issue Date: 06/18/2019

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

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.